ANALYTICAL ABSTRACTS

176

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VOL. 17

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ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. Wh the initials of given names in the Author Index and in the abstracts do not agree, the Index should assumed to be correct.

Vol. 13, 1966

Abstract

No.	*Line*	
4068	5	*for* **35** *read* **32**

Vol. 14, 1967

Abstract

Index, p. li, column 2, line 55, *for* 2847 *read* 2897

No.	*Line*	
2050	6	*for* Iminobis(dipropylamine) *read* 3,3′-Iminodi(propylamine) The appropriate modification should be made to the Subject Index, Vol. 14, 1967

Vol. 15, 1968

Index, p. 4, *insert* **Advisory Committee on Export of Fruit and Vegetable Products** [Israel]. Study composition of Israeli citrus juices, 5664. *after entry for* **Adriaenssens, K., Vanheule, R.,** a **Belle, M. van.**

Index, p. 4, *insert* **Agricultural Chemical Inspection Station** [Japan]. Instrumental methods for pes cide analysis, 3660. *after entry for* **Ågren, A.,** and **Garrett, E. R.**

Index, p. 9, *insert* **Association of Official Analytical Chemists.** Changes in official methods of analy 3007. *after entry for* **Associated Semiconductor Manufacturers Ltd.**

Index, p. 17, column 1, line 10, *for* 4843 *read* 4743

Index, p. 24, column 2, *replace the entry for* **Bourguillot, R., Cavard, A., Cornu, A., Robin, A. M.,** a **Stefani, R.** *by*

Bourguillot, R., Cavard, A., Cornu, A., Robin, A. M., and **Stefani, R.** Determination of light elements by spark-source mass spectrometry, 48.

— **Cavard, A., Cornu, A.,** and **Stefani, R.** Determination of trace impurities in beryllium and uranium by spark-source mass spectrometry, 5242.

Index, p. 26, column 2, *replace the entries for* **Brendel, K., Roszel, N. O., Wheat, R. W.,** and **Davids** **E. A.** *and for* — **Steele, R. S., and Davidson, E. A.,** *by*

Brendel, K., Roszel, N. O., Wheat, R. W., and **Davidson, E. A.** Ion-exchange separation and automated assay of hexosamines, I, 2166.

— **Steele, R. S.,** and **Davidson, E. A.** Conical preparative TLC, 7680.

— **Steele, R. S., Wheat, R. W.,** and **Davidson, E. A.** Ion-exchange separation and automated assay of hexosamines. II. Complex mixtures of amino-acids and some hexosamines, 2166.

Index, p. 28, column 1, line 54, *for* — **Vÿchuzhanina, I. P.,** and **Miller, A. D.** *read* **Brodskaya, N.** **Vÿchuzhanina, I. P.,** and **Miller, A. D.**

Index, p. 28, *insert* **Bruch, J.** Vacuum-spectrometric analysis of high-alloy steel, 1390. *after entry* **Bruce, T.,** and **Ashley, R. W.**

Index, p. 68, column 2, *replace the entry for* **Goode, T. C., Herrington, J.,** and **Jones, W. T.** *by*

Goode, G. C., Herrington, J., and **Jones, W. T.** High-precision analysis of nuclear materials by constant-current coulometry. I. Determination of uranium, 3857.

— and **Jones, W. T.** High-precision analysis of nuclear materials by constant-current coulometry. II. Determination of thorium, 5271.

Index, p. 106, column 2, line 8, *for* I, 3132. *read* I; II, 3132.

Index, p. 207, column 1, line 37, *for* 276 *read* 265

Abstract

No.	*Line*	
4970	2	*for* Z. Budavári *read* Z. Budvári
4974	3	*for* T. Fábry *read* G. Fábry

Appropriate amendments should be made to the Author Index, Vol. 15, 1968.

Vol. 16, 1969

Index, p. 9, *replace entry for* **Bendito, D. P.,** and **Pino Pérez, F.** *by* **Bendito, D. P.** See **Pérez Bendito**

Index, p. 28, column 1, line 32, *for* **Stahl, E; Stahl.** *read* **Stahl, E.**

Index, p. 44, column 1, lines 53, 54, *for* 14-methoxyphenol *read* 4-methoxyphenol

Index, p. 67, column 2, *after entry for* **Pérez, M. Z.** *insert* **Pérez Bendito, D.,** and **Pino Pérez, F.** Photometry after development of colour between organic compounds prepared *in situ* and inorganic cations. II. Reaction of cobalt^{II} with biacetyl monoxime plus thiosemicarbazide and with biacetyl thiosemicarbazone oxime: analytical applications, 1879.

Index, p. 68, column 2, line 10, *for* **Bendito, D. P.** *read* **Pérez Bendito, D.**

Index, p. 85, column 1, line 48, *insert* of *before* serum

Index, p. 116, column 2, line 68, for *Pigment Red* 49. read *Pigment Red* 53, Ba *salt.*

Index, p. 117, column 1, line 49, *for* 49 *read* 53

Index, p. 117, column 2, line 22, *this line should read* SiO_2 for pH detmn., 1687.

Abstract No.	*Line*	
262	4	*for* **Pigment Red 53**] *read* **Pigment Red 49**]

Vol. 17, 1969

Abstract No.	*Line*	
71	1, 2	*for* **[3-hydroxy-4-(6-hydroxy-*m*-tolylazonaphthalene-1-sulphonic acid]** *read* **[3-hydroxy-4-(6-hydroxy-*m*-tolylazo)naphthalene-1-sulphonic acid]**
411	4	*for* M. C. Gutteridge *read* J. M. C. Gutteridge
420	6	*for* (24) *read* (4)
501	14	*for* 29 *read* 20
783	4	*for* H. Wichmann *read* P. Wichmann
834	7	*for* (10 ml), *read* (10 ml,
1001		*the abstractor's name should be* D. V. A. JENKIN
1026	4	*for* H. Jatkewitz *read* H. Jatzkewitz
1120	2	*for* **gentamycin** *read* **gentamicin**
1130	19	*for* 4748 *read* 4784
1326	3	*for* G. S. Sanayal *read* G. S. Sanyal
1432	4	*for* E. J. Pozomek *read* E. J. Poziomek
1562	3	*for* J. L. Peterson *read* J. I. Peterson
1590	14	*for* Oesteriol *read* Oestriol
1982	2	*for* H. V. Svec *read* H. J. Svec
1987	16	*for* at ≃6 5 *read* at ≃65°
2029	2	*for* A. M. Al Samaray *read* A. M. Al Samarai
2280	3	*for* G. Hauk *read* G. Hauck
2383	5	*insert* the drugs, including *after* of
2383	6	*delete* the drugs, including
2447	9	*for* a PH_3, or PH_3-treated cereal, *read* PH_3, or a PH_3-treated cereal,
2470	23	*for* laevuate *read* laevulate
2837	16	*for* platanium *read* platinum
2868	14	*insert* measured *before* difference
2895	3	*for* W. F. Ives *read* N. F. Ives
2931	2, 3	*for* K. Rasmussen (Aarhus Kommunehosp., Denmark) *read* M. Croizet, F. Dumora, A. M. Moura and P. Blanquet (Fac. Med. Pharm., Bordeaux, France)
2967	2	*for* C. Löstickz *read* C. Losticky
3133	5	*for* famework *read* framework
3428	2, 3	*for* E. P. Nikolaeva *read* E. R. Nikolaeva
3446	21	*for* 2-thioyltrifluoro- *read* 2-thenoyltrifluoro-
3714	2	*for* **gonadotropin** *read* **gonadotrophin**
3808	9	*insert* is *after* slurry
4022	18	*insert* anodic- *after* that

Cross-references after abstract 885, line 7. *For* **87,** *read* **687,**

JOURNALS

The following list contains the names of journals (and their abbreviations) from which papers ha been abstracted regularly during 1969. Journals that have been omitted are those that contain only occasional analytical paper, and a number of Russian journals from which translated abstracts have be published through the medium of *Referativnyĭ Zhurnal*.

The abbreviations, in italics, after the full names of the journals refer to the languages in which t journals are published.

Acta chem. fenn.	Acta Chemica Fennica [*Eng.*]
Acta chem. scand.	Acta Chemica Scandinavica [*Eng.*]
Acta chim. hung.	Acta Chimica Academiae Scientiarum Hungaricae [*Eng., Ge*
Acta pharmac. tox.	Acta Pharmacologica et Toxicologica [København] [*Eng.*]
Acta pharm. hung.	Acta Pharmaceutica Hungarica [*Hung.*]
Acta pharm. jugosl.	Acta Pharmaceutica Jugoslavica [*Serbo-Croat*]
Acta pharm. suec.	Acta Pharmaceutica Suecica [*Eng.*]
Acta Pol. pharm.	Acta Poloniae Pharmaceutica [*Pol.*]
Afinidad	Afinidad [*Span.*]
Agric. biol. Chem.	Agricultural and Biological Chemistry [Tokyo] [*Eng.*]
AMDEL Bull.	Bulletin of the Australian Mineral Development Laborator [*Eng.*]
Am. Dyestuff Reptr	American Dyestuff Reporter [*Eng.*]
Am. ind. Hyg. Ass. J.	American Industrial Hygiene Association Journal [*Eng.*]
Am. J. clin. Path.	American Journal of Clinical Pathology [*Eng., Fr.*]
Am. Miner.	American Mineralogist [*Eng.*]
Anal. ştiinţ. Univ. Al. I. Cuza	Analele Ştiinţifice de Universităţii 'Al. I. Cuza' din Iaşi [*Fr., Ger., Rom.*]
Analyst, Lond.	Analyst [*Eng.*]
Analyt. Biochem.	Analytical Biochemistry [*Eng.*]
Analyt. Chem.	Analytical Chemistry [*Eng.*]
Analytica chim. Acta	Analytica Chimica Acta [*Eng., Fr., Ger.*]
Analyt. Lett.	Analytical Letters [*Eng., Fr., Ger.*]
Analyzer	Analyzer [*Eng.*]
An. Asoc. quím. argent.	Anales de la Asociación Química Argentina [*Span.*]
An. Bromat.	Anales de Bromatologia [*Span.*]
Angew. Chem., int. Edn	Angewandte Chemie, International Edition [*Eng.*]
Annali Chim.	Annali di Chimica [*Ital.*]
Annali Ist. sup. Sanità	Annali dell'Istituto superiore Sanità [*Eng., Fr., Ital.*]
Annls Biol. clin.	Annales de Biologie Clinique [*Fr.*]
Annls Falsif. Expert. chim.	Annales des Falsifications et de l'Expertise Chimique [*Fr.*]
Annls pharm. fr.	Annales Pharmaceutiques Françaises [*Fr.*]
An. R. Soc. esp. Fís. Quím., B	Anales de la Real Sociedad Española de Física y Química [*Span.*]
Antibiotiki	Antibiotiki [*Russ.*]
Appl. Optics	Applied Optics [*Eng.*]
Appl. Spectrosc.	Applied Spectroscopy [*Eng.*]
Arch. EisenhüttWes.	Archiv für das Eisenhüttenwesen [*Ger.*]
Arch. Pharm., Berl.	Archiv der Pharmazie (und Berichte der Deutschen pharm zeutischen Gesellschaft) [*Ger.*]
Archs Biochem. Biophys.	Archives of Biochemistry and Biophysics [*Eng.*]
Arch. Tox.	Archiv für Toxikologie [*Ger.*]
Ark. Kemi	Arkiv för Kemi [*Eng.*]
Armyan. khim. Zh.	Armyanskiĭ Khimicheskiĭ Zhurnal [*Russ.*]
Arzneimittel-Forsch.	Arzneimittel-Forschung [*Ger.*]
Atom. Absorption Newsl.	Atomic Absorption Newsletter [*Eng.*]
Atomn. Énerg.	Atomnaya Énergiya [*Russ.*]
Atmosph. Environment	Atmospheric Environment [*Eng.*]
Aust. J. Chem.	Australian Journal of Chemistry [*Eng.*]
Aust. J. exp. Biol. med. Sci.	Australian Journal of Experimental Biology and Med Science [*Eng.*]
Azerb. khim. Zh.	Azerbaidzhanskiĭ Khimicheskiĭ Zhurnal [*Russ.*]
Beitr. Tabakforsch.	Beiträge zur Tabakforschung [*Eng., Ger.*]
Biochem. biophys. Res. Commun.	Biochemical and Biophysical Research Communications [*E*
Biochem. J.	Biochemical Journal [*Eng.*]
Biochim. appl.	Biochimica Applicata [*Ital.*]
Biochim. biophys. Acta	Biochimica et Biophysica Acta [*Eng.*]
Biokhimiya	Biokhimiya [*Russ.*]
B.I.S.R.A. Open Rep.	B.I.S.R.A. Open Report [*Eng.*]
Boll. chim.-farm.	Bollettino Chimico Farmaceutico [*Ital.*]
Boll. Laboratori chim. prov.	Bollettino dei Laboratori Chimici Provinciali [*Ital.*]
Boll. Soc. ital. Biol. sper.	Bollettino della Società Italiana di Biologia Sperimen [*Ital.*]
Brauwissenschaft	Brauwissenschaft [*Ger.*]
Brennst.-Chem.	Brennstoff-Chemie [*Ger.*]

r. J. appl. Phys. (*J. Phys. D*) (*Ser. 2*)	British Journal of Applied Physics (Journal of Physics D) (Series 2) [*Eng.*]
r. med. J.	British Medical Journal [*Eng.*]
r. Plast.	British Plastics [*Eng.*]
ul. Inst. politeh. Iaşi	Buletinul Institutului Politehnic din Iaşi [*Rom.*]
ull. Agr. Chem. Insp. Stn	Bulletin of the Agricultural Chemical Inspection Station [*Jap.*]
ull. chem. Soc. Japan	Bulletin of the Chemical Society of Japan [*Eng.*]
ull. envir. Contam. Toxicol.	Bulletin of Environmental Contamination and Toxicology [*Eng.*]
ull. Narcot.	Bulletin on Narcotics [*Eng.*]
ull. Soc. Chim. biol.	Bulletin de la Société de Chimie Biologique [*Fr.*]
ull. Soc. chim. Fr.	Bulletin de la Société Chimique de France [*Fr.*]
ull. Trav. Soc. Pharm. Lyon	Bulletin des Travaux de la Société de Pharmacie de Lyon [*Fr.*]
an. J. Biochem.	Canadian Journal of Biochemistry [*Eng.*]
an. J. Chem.	Canadian Journal of Chemistry [*Eng.*]
an. J. pharm. Sci.	Canadian Journal of Pharmaceutical Science [*Eng.*]
an. Spectrosc.	Canadian Spectroscopy [*Eng., Fr.*]
ereal Chem.	Cereal Chemistry [*Eng.*]
hem. Engng News	Chemical and Engineering News [*Eng.*]
hemia analit.	Chemia Analityczna [*Eng., Fr., Ger., Pol.*]
hemické Listy	Chemické Listy [*Czech*]
hemické Zvesti	Chemické Zvesti [*Slovak*]
hemický Prům.	Chemický Průmysl [*Czech*]
hemie-Ingr-Tech.	Chemie-Ingenieur-Technik [*Ger.*]
hemikerzeitung—chem. Appar.	Chemiker-Zeitung—Chemische Apparatur [*Ger.*]
hemistry, Taipei	Chemistry, Taipei [*Chin.*]
hem. pharm. Bull., Tokyo	Chemical & Pharmaceutical Bulletin [*Eng., Ger.*]
hem. Tech., Berl.	Chemische Technik [*Ger.*]
hemy Ind.	Chemistry & Industry [*Eng.*]
him. analyt.	Chimie Analytique [*Fr.*]
himia	Chimia [*Eng., Fr., Ger.*]
himica Ind., Milano	Chimica e l'Industria [*Ital.*]
lin. Chem.	Clinical Chemistry [*Eng.*]
linica chim. Acta	Clinica Chimica Acta [*Eng., Fr., Ger.*]
olln Czech. chem. Commun.	Collection of Czechoslovak Chemical Communications [*Eng., Ger.*]
olumn	Column: W. G. Pye Gas Chromatography Bulletin [*Eng.*]
. r. Acad. bulg. Sci.	Compte Rendu de l'Académie Bulgare des Sciences [*Eng., Fr., Ger.*]
. r. hebd. Séanc. Acad. Sci., Paris	Compte Rendu Hebdomadaire des Séances de l'Académie des Sciences [*Fr.*]
roat. chem. Acta	Croatica Chemica Acta [*Eng., Ger.*]
slká Farm.	Československá Farmacie [*Czech, Slovak*]
urr. Sci.	Current Science [*Eng.*]
Diss. Abstr.	Dissertation Abstracts [*Eng.*]
Dissnes pharm., Warsz.	Dissertationes Pharmaceuticae [*Pol.*]
Dokl. Akad. Nauk SSSR	Dokladȳ Akademii Nauk SSSR [*Russ.*]
Dokl. Akad. Nauk uzbek. SSR	Dokladȳ Akademii Nauk Uzbekskoĭ SSR [*Russ.*]
Double Liaison	Double Liaison [*Fr.*]
Dt. ApothZtg	Deutsche Apotheker-Zeitung [*Ger.*]
Dt. LebensmittRdsch.	Deutsche Lebensmittel-Rundschau [*Ger.*]
Dt. Z. ges. gerichtl. Med.	Deutsche Zeitschrift für die gesamte gerichtliche Medizin [*Ger.*]
Econ. Geol.	Economic Geology [*Eng.*]
Eczacilik Bült.	Eczacilik Bülteni [*Turk.*]
Envir. Sci. Technol.	Environmental Science & Technology [*Eng.*]
Enzymologia	Enzymologia [*Eng.*]
Erdöl Kohle	Erdöl und Kohle, Erdgas, Petrochemie [*Ger.*]
Experientia	Experientia [*Eng., Ger.*]
Farbe Lack	Farbe und Lack [*Ger.*]
Farmacja pol.	Farmacja Polska [*Pol.*]
Farmaco, Ed. prat.	Farmaco, Edizione Pratica [*Fr., Ital.*]
Farmaco, Ed. scient.	Farmaco, Edizione Scientifica [*Ital.*]
Farm. Obzor	Farmaceuticky Obzor [*Czech*]
Faserforsch. TextTech.	Faserforschung und Textiltechnik [*Ger.*]
Fette Seifen AnstrMittel	Fette, Seifen, Anstrichmittel [*Ger.*]
Flame Notes	Flame Notes [*Eng.*]
Fuel, Lond.	Fuel [*Eng.*]
Geochim. cosmochim. Acta	Geochimica et Cosmochimica Acta [*Eng.*]
Geokhimiya	Geokhimiya [*Russ.*]

Getreide Mehl	Getreide und Mehl [*Ger.*]
Gidrokhim. Mater.	Gidrokhimicheskie materialȳ [*Russ.*]
Gig. Sanit.	Gigiena i Sanitariya [*Russ.*]
G-I-T	Glas-Instrumenten-Technik [*Eng.*, *Ger.*]
Grasas Aceit.	Grasas y Aceites [*Span.*]
Helv. chim. Acta	Helvetica Chimica Acta [*Fr.*, *Ger.*]
Herba pol.	Herba polonica [*Pol.*]
Hilger J.	Hilger Journal [*Eng.*]
Hlth Phys.	Health Physics [*Eng.*]
Hoppe-Seyler's Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift für physiologische Chemie [*Ger.*]
Hutn. Listy	Hutnické Listy [*Czech*]
Indian J. appl. Chem.	Indian Journal of Applied Chemistry [*Eng.*]
Indian J. Biochem.	Indian Journal of Biochemistry [*Eng.*]
Indian J. Chem.	Indian Journal of Chemistry [*Eng.*]
Indian J. Dairy Sci.	Indian Journal of Dairy Science [*Eng.*]
Indian J. Pharm.	Indian Journal of Pharmacy [*Eng.*]
Indian J. pure appl. Phys.	Indian Journal of Pure and Applied Physics [*Eng.*]
Indian J. Technol.	Indian Journal of Technology [*Eng.*]
Industrie agrarie	Industrie agrarie [*Ital.*]
Industrie chim. belge	Industrie Chimique Belge [*Flem.*, *Fr.*]
Infción Quím. analít. pura apl. Ind.	Información de Química Analítica, Pura y Aplicada a Industria [*Span.*]
Instrums Control Syst.	Instruments & Control Systems [*Eng.*]
Int. J. appl. Radiat. Isotopes	International Journal of Applied Radiation and Isotop [*Eng.*, *Ger.*]
Int. Sug. J.	International Sugar Journal [*Eng.*]
Israel J. Chem.	Israel Journal of Chemistry [*Eng.*]
Ital. J. Biochem.	Italian Journal of Biochemistry [*Eng.*]
Izv. Akad. Nauk kazakh. SSR, Ser. khim. Nauk	Izvestiya Akademii Nauk Kazakhskoĭ SSR, Seriya Khim cheskaya [*Russ.*]
Izv. Akad. Nauk SSSR, Ser. khim.	Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya [*Rus*
Izv. sib. Otdel. Akad. Nauk SSSR	Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR [*Rus*
Izv. tomsk. politekh. Inst.	Izvestiya Tomskogo Politekhnicheskogo Instituta im S.M. Kirova [*Russ.*]
Izv. vȳssh. ucheb. Zaved., Khim. khim. Tekhnol.	Izvestiya Vȳsshikh Uchebnȳkh Zavedeniĭ, Khimiya i Khim cheskaya Tekhnologiya [*Russ.*]
J. agric. Fd Chem.	Journal of Agricultural and Food Chemistry [*Eng.*]
J. Air Pollut. Control Ass.	Journal of the Air Pollution Control Association [*Eng.*]
J. Am. Oil Chem. Soc.	Journal of the American Oil Chemists' Society [*Eng.*]
J. Am. Wat. Wks Ass.	Journal of the American Water Works Association [*Eng.*]
Japan Analyst	Japan Analyst [*Jap.*]
J. appl. Chem., Lond.	Journal of Applied Chemistry [*Eng.*]
J. appl. Phys.	Journal of Applied Physics [*Eng.*]
J. Ass. off. analyt. Chem.	Journal of the Association of Official Analytical Chemist [*Eng.*]
J. Ass. publ. Analysts	Journal of the Assocation of Public Analysts [*Eng.*]
J. biol. Chem.	Journal of Biological Chemistry [*Eng.*]
J. chem. Educ.	Journal of Chemical Education [*Eng.*]
J. chem. Soc.	Journal of the Chemical Society [London] [*Eng.*]
J. chem. Soc. Japan, ind. Chem. Sect.	Journal of the Chemical Society of Japan, Industrial Chem istry Section [*Jap.*]
J. chem. Soc. Japan, pure Chem. Sect.	Journal of the Chemical Society of Japan, Pure Chemistr Section [*Jap.*]
J. Chin. chem. Soc., Taipei	Journal of the Chinese Chemical Society [*Eng.*]
J. Chromat.	Journal of Chromatography [*Eng.*, *Fr.*, *Ger.*]
J. Dairy Sci.	Journal of Dairy Science [*Eng.*]
J. electroanalyt. Chem.	Journal of Electroanalytical Chemistry [*Eng.*]
J. electrochem. Soc.	Journal of the Electrochemical Society [New York] [*Eng.*]
Jena Rev.	Jena Review [*Eng.*]
J. Endocr.	Journal of Endocrinology [*Eng.*]
Jernkont. Annlr	Jernkontorets Annaler [*Swed.*]
J. Fd Sci.	Journal of Food Science [*Eng.*]
J. forens. Sci.	Journal of Forensic Sciences, U.S.A. [*Eng.*]
J. forens. Sci. Soc.	Journal of the Forensic Science Society, U.K. [*Eng.*]
J. Gas Chromat.	Journal of Gas Chromatography [*Eng.*]
J. Indian chem. Soc.	Journal of the Indian Chemical Society [*Eng.*]
J. inorg. Nucl. Chem.	Journal of Inorganic & Nuclear Chemistry [*Eng.*]
J. Inst. Brew.	Journal of the Institute of Brewing [*Eng.*]
J. Inst. Fuel	Journal of the Institute of Fuel [*Eng.*]
J. Inst. Metals	Journal of the Institute of Metals [*Eng.*]
J. Inst. Petrol.	Journal of the Institute of Petroleum [*Eng.*]
J. Iron Steel Inst.	Journal of the Iron and Steel Institute [*Eng.*]
J. Lab. clin. Med.	Journal of Laboratory and Clinical Medicine [*Eng.*]

labelled Compounds	Journal of Labelled Compounds [*Eng.*, *Fr.*, *Ger.*]
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S. Afr. Inst. Min. Metall.	Journal of the South African Institute of Mining and Metallurgy [*Eng.*]
Oil Colour chem. Ass.	Journal of the Oil and Colour Chemists' Association [*Eng.*]
opt. Soc. Am.	Journal of the Optical Society of America [*Eng.*]
Paint Technol.	Journal of Paint Technology [*Eng.*]
Pharm. Belg.	Journal de Pharmacie de Belgique [*Fr.*]
Pharm. Pharmac.	Journal of Pharmacy and Pharmacology [*Eng.*]
pharm. Sci.	Journal of Pharmaceutical Sciences [*Eng.*]
pharm. Soc. Japan	Journal of the Pharmaceutical Society of Japan [*Jap.*]
polarogr. Soc.	Journal of the Polarographic Society [*Eng.*]
Polym. Sci., A	Journal of Polymer Science [*Eng.*]
prakt. Chem.	Journal für praktische Chemie [*Eng.*, *Ger.*]
Proc. Instn Chem. India	Journal and Proceedings of the Institution of Chemists [*Eng.*]
radioanalyt. Chem.	Journal of Radioanalytical Chemistry [*Eng.*, *Fr.*, *Ger.*]
Res. natn. Bur. Stand.	Journal of Research of the National Bureau of Standards [*Eng.*]
scient. Instrum. (*J. Phys. E*) (*Ser. 2*)	Journal of Scientific Instruments (Journal of Physics E) (Series 2) [*Eng.*]
Sci. Fd Agric.	Journal of the Science of Food and Agriculture [*Eng.*]
Soc. cosmet. Chem.	Journal of the Society of Cosmetic Chemists [*Eng.*]
Soc. Leath. Trades Chem.	Journal of the Society of Leather Trades' Chemists [*Eng.*]
Wat. Pollut. Control Fed.	Journal of the Water Pollution Control Federation [*Eng.*]
emija Ind.	Kemija u Industriji [*Serbo-Croat*]
lin. Wschr.	Klinische Wochenschrift [*Ger.*]
unststoff-Rdsch.	Kunststoff-Rundschau [*Ger.*]
ab. Delo	Laboratornoe Delo [*Russ.*]
ab. Pract.	Laboratory Practice [*Eng.*]
ancet	Lancet [*Eng.*]
ipids	Lipids [*Eng.*]
loydia	Lloydia [*Eng.*]
agy. kém. Foly.	Magyar Kémiai Folyóirat [*Hung.*]
agy. Kém. Lap.	Magyar Kémikusok Lapja [*Hung.*]
ater. Res. Stand.	Materials Research and Standards [*Eng.*]
eddr norsk farm. Selsk.	Meddelelser fra Norsk Farmaceutisk Selskap [*Eng.*, *Ger.*]
etal Finish.	Metal Finishing [*Eng.*]
etalloberfläche	Metalloberfläche [*Ger.*]
etallurgia	Metallurgia, Manchester, U.K. [*Eng.*]
etallurgia ital.	Metallurgia Italiana [*Ital.*]
fg Chem.	Manufacturing Chemist [*Eng.*]
h. Chem.	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften [*Ger.*]
icrochem. J.	Microchemical Journal [*Eng.*]
ikrochim. Acta	Mikrochimica Acta [*Eng.*, *Fr.*, *Ger.*]
isc. Publs natn. Bur. Stand.	Miscellaneous Publications. National Bureau of Standards [*Eng.*]
itt. Geb. Lebensmittelunters. u. Hyg.	Mitteilungen aus dem Gebiete der Lebensmitteluntersuchung und Hygiene [*Ger.*]
itt. Rebe Wein, Obstb. Früchtverwert.	Mitteilungen (Klosterneuberg). Rebe und Wein, Obstbau und Früchtverwertung [*Ger.*]
schr. Brau.	Monatsschrift für Brauerei [*Ger.*]
ahrung	Nahrung [*Ger.*]
ature, Lond.	Nature [*Eng.*]
aturwissenschaften	Naturwissenschaften [*Eng.*, *Ger.*]
auch. Trudȳ tashkent. Univ.	Nauchnȳe Trudȳ Tashkentskogo Universitet [*Russ.*]
eftekhimiya	Neftekhimiya [*Russ.*]
eth. Milk Dairy J. [*Ned. Melk- en Zuiveltijdschr.*]	Netherlands Milk and Dairy Journal [English translation of Nederlandsch Melk- en Zuiveltijischrift]
eue Hütte	Neue Hütte [*Ger.*]
ukleonika	Nukleonika [*Pol.*]
.Z. Jl Sci.	New Zealand Journal of Science [*Eng.*]
ff. Dig. J. Paint Technol. Engng	Official Digest, Journal of Paint Technology and Engineering [*Eng.*]
ptics Spectrosc. [*Optika Spektrosk.*]	Optics and Spectroscopy [English translation of Optika i Spektroskopiya]
apier, Darmstadt	Papier [*Ger.*]
ath. Biol., Paris	Pathologie et Biologie [*Fr.*]
eint.-Pigm.-Vern.	Peintures-Pigments-Vernis [*Fr.*]
erfum. essent. Oil Rec.	Perfumery and Essential Oil Record [*Eng.*]
erkin-Elmer Instrum. News	Perkin-Elmer Instrument News [*Eng.*]

Periodica polytech.	Periodica Polytechnica [*Eng., Ger.*]
Pharm. Acta Helv.	Pharmaceutica Acta Helvetiae [*Eng., Fr., Ger.*]
Pharmazie	Pharmazie [*Ger.*]
Pharm. J.	Pharmaceutical Journal [*Eng.*]
Pharm. Weekbl. Ned.	Pharmaceutisch Weekblad voor Nederland [*Dutch, Eng., Ger*
Pharm. Zentralhalle Dtl.	Pharmazeutische Zentralhalle für Deutschland [*Ger.*]
Photoelect. Spectrom. Grp Bull.	Photoelectric Spectrometry Group Bulletin [*Eng.*]
Plaste Kautsch.	Plaste und Kautschuk [*Ger.*]
Plast. Massy̆	Plasticheskie Massy̆ [*Russ.*]
Plating	Plating [*Eng.*]
Pochvovedenie	Pochvovedenie [*Russ.*]
Powder Technol.	Powder Technology [*Eng.*]
Pracovní Lék.	Pracovní Lékařství [*Czech, Slovak*]
Pr. Instw. Minist. Hutn.	Prace Instytutów Ministerstwa Hutnictwa [*Pol.*]
Proc. Am. Soc. Brew. Chem.	Proceedings of the American Society of Brewing Chemis [*Eng.*]
Proc. Indian Acad. Sci.	Proceedings of the Indian Academy of Sciences [*Eng.*]
Proc. Soc. analyt. Chem.	Proceedings of the Society for Analytical Chemistry [*Eng.*]
Prof. Pap. U.S. geol. Surv.	Professional Papers. United States Geological Survey [*Eng*
Prům. Potravin	Průmysl Potravin [*Czech, Slovak*]
Pure appl. Chem.	Pure and Applied Chemistry [*Eng., Fr., Ger.*]
Pyrethrum Post	Pyrethrum Post [*Eng., Fr.*]
Quím. Ind., Bilbao	Química e Industria [*Span.*]
Radiochim. Acta	Radiochimica Acta [*Eng., Fr., Ger.*]
Radiokhimiya	Radiokhimiya [*Russ.*]
Rapp. CEA	Rapport. Commissariat à l'Énergie Atomique [*Fr.*]
Rass. chim.	Rassegna Chimica [*Ital.*]
Recl Trav. chim. Pays-Bas	Recueil des Travaux Chimiques des Pays-Bas [*Eng.*]
Rep. atom. Energy Commn U.S.	Report. Atomic Energy Commission, United States [*Eng.*]
Rep. Invest. U.S. Bur. Mines	Report of Investigations. United States Bureau of Min [*Eng.*]
Rep. U.K. atom. Energy Auth.	Report. United Kingdom Atomic Energy Authority [*Eng.*
Rev. Coal Tar Technol.	Review of Coal Tar Technology [*Eng.*]
Rev. scient. Instrum.	Review of Scientific Instruments [*Eng.*]
Revta Agroquím. Tecnol. Aliment.	Revista de Agroquímica y Tecnologia de Alimentos [*Span.*]
Revta Asoc. bioquím. argent.	Revista de la Asociación Bioquímica Argentina [*Span.*]
Revtă Chim.	Revistă de Chimie [*Rom.*]
Revta Ciencia apl.	Revista de Ciencia Aplicada [*Span.*]
Revta Fac. Farm. Bioquím., Univ. S Paulo	Revista da Faculdade de Farmácia e Bioquímica da U versidade de São Paulo [*Port.*]
Revta Metal.	Revista de Metalurgia [*Span.*]
Revta port. Quím.	Revista Portuguesa de Química [*Port., Span.*]
Revta Soc. quím. Méx.	Revista. Sociedad química de México [*Span.*]
Revta Univ. ind. Santander	Revista de la Universidad Industrial de Santander [*Span.*]
Revue roum. Chim.	Revue Roumaine de Chimie [*Eng., Fr., Ger.*]
Ricerca scient.	Ricerca Scientifica [*Ital.*]
Riechstoffe Arom. Körperpflegemittel	Riechstoffe, Aromen, Körperpflegemittel [*Ger.*]
Riv. ital. Sostanze grasse	Rivista Italiana delle Sostanze Grasse [*Ital.*]
Roczn. Chem.	Roczniki Chemii [*Eng., Fr., Ger., Pol.*]
Roczn. państ. Zakł. Hig.	Rocznik Państwowego Zakładu Higieny [*Pol.*]
Ropa Uhlie	Ropa a Uhlie [*Czech, Slovak*]
S. Afr. J. agric. Sci.	South African Journal of Agricultural Science [*Afrik., Eng*]
Sb. Trud. tsent. nauchno-issled. Inst. chern. Metall.	Sbornik Trudov Tsentral'nogo nauchno-issledovatel'sk Instituta chernoĭ Metallurgiĭ [*Russ.*]
Scand. J. clin. Lab. Invest.	Scandinavian Journal of Clinical & Laboratory Investigat [*Eng.*]
Science, N.Y.	Science [*Eng.*]
Scientia pharm.	Scientia Pharmaceutica [*Ger.*]
Sci. Tools	Science Tools [*Eng.*]
Sepn Sci.	Separation Science [*Eng.*]
Soap chem. Spec.	Soap and Chemical Specialties [*Eng.*]
Soil Sci.	Soil Science [*Eng.*]
Spectrochim. Acta	Spectrochimica Acta [*Eng., Ger.*]
Spectrosc. Lett.	Spectroscopy Letters [*Eng.*]
Spectrovision	Spectrovision [*Eng.*]
Stärke	Stärke [*Ger.*]
Staub, Reinhalt. Luft	Staub, Reinhaltung der Luft [*Ger.*]
Steroids	Steroids [*Eng.*]
Studia Univ. Babeş-Bolyai	Studia Universitatis Babeş-Bolyai [*Rom.*]
Studii Cerc. Chim.	Studii şi Cercetări de Chimie [*Rom.*]
Studii Cerc. Fiz.	Studii şi Cercetări de Fizică [*Rom.*]
Svensk PappTidn.	Svensk Papperstidning [*Eng., Ger.*]
Talanta	Talanta [*Eng., Fr., Ger.*]

PPI	Journal of the Technical Association of the Pulp and Paper Industry [*Eng.*]
chnology, Sindri	Technology [*Eng.*]
nside	Tenside [*Ger.*]
lsskr. Kjemi Bergv. Metall.	Tidskrift for Kjemi, Bergvesen og Metallurgi [*Nor.*]
ans. Br. ceram. Soc.	Transactions of the British Ceramic Society [*Eng.*]
ans. Instn Min. Metall.	Transactions of the Institution of Mining and Metallurgy [*Eng.*]
av. Soc. Pharm. Montpellier	Travaux de la Société de Pharmacie de Montpellier [*Fr.*]
ib. CEBEDEAU	Tribune du CEBEDEAU [Centre Belge d'Étude et de Documentation des Eaux] [*Fr.*]
udȳ Khim. khim. Tekhnol. [Gor'kiĭ]	Trudȳ po Khimii i Khimicheskoĭ Tekhnologiĭ [*Russ.*]
udȳ Kom. analit. Khim.	Trudȳ Komissii po Analiticheskoĭ Khimii [*Russ.*]
udȳ mosk. khim.-tekhnol. Inst.	Trudȳ Moskovskogo Khimiko-Tekhnologicheskogo Instituta imeni D. I. Mendeleeva [*Russ.*]
udȳ vses. nauchno-issled. Inst. khim. Reakt.	Trudȳ Vsesoyuznogo Nauchno-issledovatel'skogo Instituta khimicheskikh Reaktivov [*Russ.*]
chen. Zap. azerb. gos. Univ., Ser. khim. Nauk	Uchenȳe Zapiski Azerbaĭdzhanskogo Gosudarstvennogo Universiteta, Seriya Khimicheskikh Nauk [*Russ.*]
chen. Zap. latv. gos. Univ.	Uchenȳe Zapiski Latviĭskogo Gosudarstvennogo Universiteta [*Russ.*]
chen. Zap. perm. gos. Univ.	Uchenȳe Zapiski Permskogo Gosudarstvennogo Universiteta [*Russ.*]
kr. biokhim. Zh.	Ukrainskiĭ Biokhimicheskiĭ Zhurnal [*Russ.*]
kr. khim. Zh.	Ukrainskiĭ Khimicheskiĭ Zhurnal [*Russ.*]
zbek. khim. Zh.	Uzbekskiĭ Khimicheskiĭ Zhurnal [*Russ.*]
est. leningr. gos. Univ., Ser. Fiz. Khim.	Vestnik Leningradskogo Gosudarstvennogo Universiteta, Seriya Fiziki i Khimii [*Russ.*]
est. mosk. gos. Univ., Ser. khim.	Vestnik Moskovskogo Gosudarstvennogo Universiteta, Seriya Khimiya [*Russ.*]
at. Res.	Water Research [*Eng.*]
at. Sewage Wks	Water & Sewage Works [*Eng.*]
analyt. Chem.	Zeitschrift für analytische Chemie [*Eng.*, *Ger.*]
anorg. allg. Chem.	Zeitschrift für anorganische und allgemeine Chemie [*Ger.*]
av. Lab.	Zavodskaya Laboratoriya [*Russ.*]
Chemie, Lpz.	Zeitschrift für Chemie [*Ger.*]
Erzbergb. MetallhüttWes.	Zeitschrift für Erzbergbau und Metallhüttenwesen [*Ger.*]
h. analit. Khim.	Zhurnal Analiticheskoĭ Khimii [*Russ.*]
h. neorg. Khim.	Zhurnal Neorganicheskoĭ Khimii [*Russ.*]
h. prikl. Khim., Leningr.	Zhurnal Prikladnoĭ Khimii [*Russ.*]
h. prikl. Spektrosk.	Zhurnal Prikladnoĭ Spektroskopii [*Russ.*]
klin. Chem.	Zeitschrift für klinische Chemie [*Ger.*]
Lebensmittelunters. u. -Forsch.	Zeitschrift für Lebensmittel-Untersuchung und -Forschung [*Ger.*]

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eferativnȳĭ Zhurnal, Biologicheskaya Khimiya, Section 30F
eferativnȳĭ Zhurnal, Khimiya, Section 19GD
ubbers: RAPRA Abstracts [Rubber and Plastics Research Association of Great Britain Abstracts]
Vater Pollution Abstracts
Velwyn Digest [Welwyn Hall Research Association Abstracts]
Vorld Surface Coatings Abstracts
Vorld Textile Abstracts

ABBREVIATIONS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

alternating current	a.c.
ampere	amp.
Ångström unit	Å
aqueous	aq.
centimetre	cm
Colour Index (2nd Edition)	C.I.
concentrated	conc.
concentration	concn.
current density	c.d.
density, relative	*d* or wt. per ml
deoxyribonucleic acid	DNA
dihydronicotinamide-adenine dinucleotide	$NADH_2$ (not DPNH)
dilute (as adjective)	dil.
direct current	d.c.
electron volt	eV
ethylenediaminetetra-acetate	EDTA
gas - liquid chromatography	GLC
gas - solid chromatography	GSC
gram	g
gram-molecule	mole
half-wave potential	$E_{\frac{1}{2}}$
infra-red	i.r.
insoluble	insol.
international unit	i.u.
ionic strength	I
kilogram	kg
kilovolt	kV
kilowatt	kW
maxim-um, -a	max.
microgram	μg (not γ)
microlitre	μl
micrometre (not micron)	μm (not μ)
micromole	μmole
milliampere	mA
millicurie	mC
milli-equivalent	milli-equiv.
milligram	mg
millilitre	ml
millimetre	mm
millimolar	mM
millivolt	mV
minute (time)	min.
molar (concentration)	M
molecul-e, -ar	mol.
nanogram	ng
nanometre (not millimicron)	nm (not mμ)
nicotinamide-adenine dinucleotide	NAD (not DPN)
nicotinamide-adenine dinucleotide phosphate	NADP (not TPN)
normal (concentration)	N
nuclear magnetic resonance	NMR
optical rotation	α
parts per million	p.p.m.
per cent.	%
per cent. (vol. in vol.)	% (v/v)
per cent. (wt. in vol.)	% (w/v)
per cent. (wt. in wt.)	% (w/w)
poly(tetrafluoroethylene)	PTFE
potential difference	p.d.
precipitate (as a noun)	ppt.
precipitated	pptd.
precipitating	pptg.
precipitation	pptn.
refractive index	n_λ^t
relative band speed	R_F
revolutions per minute	r.p.m.
ribonucleic acid	RNA
saponification value	sap. val.
saturated calomel electrode	S.C.E.
second (time)	sec.
soluble	sol.
solution	soln.
specific rotation	$[\alpha]_\lambda^t$
square centimetre	sq. cm
standard temp. and pressure	s.t.p.
thin-layer chromatography	TLC
ultra-violet	u.v.
unit of pressure (mm Hg)	torr
volt	V
watt	W
weight	wt.

In addition, the following symbols may be used in conjunction with numerical values or in mathematical expressions—

greater than	$>$
is proportional to	$\propto$
less than	$<$
of the order of, approximately	$\simeq$

Abbreviations of journal titles used in the abstracts are, in general, those of the 'World List of Scientific Periodicals' (4th edn, 1964, Butterworths, London).

The language in which an original paper is written is English unless otherwise specified.

The chemical nomenclature used in the abstracts is that recommended by The Chemical Society ('Handbook for Chemical Society Authors,' The Chemical Society, London, 1961), and may differ from that used in the original articles.

When possible, drugs are specified by their official B.P. or B.P.C. names, or by the Approved Names recommended by the British Pharmacopoeia Commission (8 Bulstrode Street, London, W1M 5FT).

The principal Pharmacopoeias are denoted by B.P., U.S.P. or D.A.B., together with the identifying roman numeral or year.

The names given to enzymes are those recommended by the International Union of Biochemistry ('Enzyme Nomenclature,' Elsevier Publishing Co., London, 1965).

Pesticides are named in accordance with the British Standard 1831 : 1969, 'Recommended Common Names for Pesticides' (British Standards Institution, 2 Park St., London, W1Y 4AA).

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INDEX TO VOLUME 17

1969

INDEX OF AUTHORS

lers should note that, in this Index, all diacritical marks have been omitted from authors' names. The German ä, ö and ü and the Scandinavian ø have been translated as ae, oe, ue and oe, respectively.

A

a, R. ESR of metals in oils and fats, 2535.

shin, V. G. See **Mekhtiev, S. I.**, 2246.

ruzzese, L. See **Bazzi, B.**, 3854.

or, Incorporated. Thermal-conductivity detec- or for GLC, 1252. Preparative GLC separation f fluids, 1870. Method and apparatus for hromatographic separations, 3150.

lel Razik, F. A. See **Alimarin, I. P.**, 770.

lel-Wahab, S. M. See **Balbaa, S. I.**, 465.

lukarimova, M. See **Volodina, M. A.**, 3490, 3491.

lullaev, A. A., Gureev, E. S., Grakhov, V. A., huk, L. I., and **Zakhidov, A. Sh.** Determination f gold in natural water by activation analysis fter chromatographic concentration, 566.

lullaev, Kh., Kapustsik, A., Otgonsuren, O., erelygin, V. P., and **Chultem, D.** Determination f fissionable elements in solid bodies, 1383.

dullaev, Sh. U. See **Murtazaev, A. M.**, 1712.

dullah, M. I. Automated determination of nanganese in silicate rocks and sediments, 109.

dusalyamov, N., Ganiev, A. G., and **Nazmitdinov, M. K.** Radioactivation determination of traces f palladium in concentrates and ores by sub- toicheiometric separation, 3475.

e, K. See **Ishibashi, N.**, 2088.

e, M., and **Abe, S.** Determination of polonium n air-borne dust by electrochemical displace- nent, 1197.

e, S. See **Abe, M.**, 1197.

ernethy, R. F., and **Gibson, F. H.** Colorimetric letermination of arsenic in coal, 2769.

les, J. G., and **Riley, G. H.** Filament-current regulator for solid-source mass spectrometers, 652.

ou-Chaar, C. I. See **Mihranian, V. H.**, 464.

ou-Elnaga, M. A. See **Elbeih, I. I. M.**, 823, 838.

raham, J. G. See **Toedt, F.**, 3790.

raham, M. H., Johnston, G. F., and **Spalding, T. R.** Spectrophotometric determination of inorganic mercury^{II}, 3342.

ramova, E. L., Talipova, L. L., and **Parpiev, N. A.** Absorptiometric determination of rhenium with mercaptoacetic acid, 3440.

ena Barrenechea, M. L., and **Galiano Sedano, J. A.** Determination of thorium-230 in minerals and residues from processing of uranium. II. Radiometry of the nuclide, 2648.

See also **Galiano Sedano, J. A.**, 2648.

haryan, G. S. See **Tarayan, V. M.**, 1355.

hey, F. A. See **Egan, W. D.**, 1310.

ker, L. See **Wildfeuer, I.**, 3793.

kermann, G., and **Kaden, W.** Bis(ethyl acetoacetate) oxalyldihydrazone as reagent for the spectrophotometric determination of copper, 53.

kermann, H. TLC - enzymic identification of organophosphorus insecticides: activation of weak esterase-inhibitors, 3853.

Engst, R., and **Fechner, G.** Separate determination of trichlorphon and dichlorvos residues in milk, 3811.

kman, R. G. Prediction of retention times in GLC of diastereoisomers of methyl-branched fatty acids, 1021. Instability of Carbowax 1500 used in GLC, 1250.

See also **Addison, R. F.**, 382.

lamczewski, B. See **Lutomski, J.**, 3756.

lamek, A., Obrusnik, I., Kukula, F., and **Krivanek, M.** Sub-stoicheiometric determination of thallium and platinum by activation analysis, 1.

See also **Obrusnik, I.**, 1930.

Adamek, M., and **Cee, A.** TLC of 3,5-disubstituted derivatives of 4-amino-1,2,4-triazole, 2822.

Adamiak, J. Colorimetric determination of cyclohexanone in air in the presence of acetone, 3864.

Adamovic, V. M. Determination of organochlorine pesticides by the ring-oven method with use of an aromatic amine. I. Determination of camphechlor with diphenylamine, 1801. Separation and identification of chlorinated hydrocarbon insecticides and herbicides by two-dimensional TLC, 3852.

Adams, C. E. See **Frevel, L. K.**, 3185.

Adams, D. F., Bamesberger, W. L., and **Robertson, T. J.** Determination of sulphur-containing gases in air with selective pre-filters and a microcoulometric detector, 1196.

Adams, F. See **Boeck, R. de**, 2057.

Adams, P. B. See **Walters, H. V.**, 2478.

Adamska, M., and **Kaczmarek, F.** Spectrophotometric determination of securinine in plant material after chromatographic separation, 1115.

Adamski, R., and **Dobrucki, R.** TLC determination of vitamin-A palmitate in ointment bases containing anhydrous lanolin, 478.

Adcock, J. W., and **Betts, T. J.** TLC of monoterpene alcohol trimethylsilyl ethers, 955.

Addison, R. F., and **Ackman, R. G.** Flame ionisation detector molar responses for methyl esters of polyfunctional metabolic acids, 382.

Adell, M. R. See **Roca Adell, M.**

Adil, A. S. See **Hashmi, M. H.**, 419.

Adler, P., Bothe, H.-K., and **Drechsler, W.** Ionisation analyser for detecting chlorohydrocarbons in air, 564.

Advisory Committee on Pesticides and Other Toxic Chemicals. Collection of pesticide residue data, 3056.

Afghan, B. K., Marryatt, R. G., and **Ryan, D. E.** *N*-Phenylbenzohydroxamic acid for determination of titanium, 801.

— and **Ryan, D. E.** Spectrophotometric determination of nickel in sea-water with picolinaldehyde 2-quinolylhydrazone, 1214.

Afonin, V. P. See **Losev, N. F.**, 3977.

Aftalion, H. See **Albert, F. M.**, 2376, and **Simionovici, R.**, 3770.

Agaeva, N. E. See **Mekhtiev, S. I.**, 2246.

Agafonova, V. I., and **Ryazanov, I. P.** Gravimetric determination of scandium with diphenic acid in the presence of yttrium and lanthanum, 771.

Agarwala, B. V., Sangal, S. P., and **Dey, A. K.** Spectrophotometric determination of vanadium^{V} with 3-amino-5-hydroxynaphthalene-2,7-disulphonic acid, 132.

Agasyan, P. K., and **Khamrakulov, T. K.** Sub-stoicheiometric coulometric analysis, 1927. Determination of nickel by sub-stoicheiometric coulometry, 3468.

— **Khamrakulov, T. K.,** and **Kordumov, A. I.** Automated sub-stoicheiometric coulometric determination of metals, 2557.

— See also **Nikolaeva, E. R.**, 148, 3428.

Aggarwal, J. S. See **Kulkarni, N. G.**, 1516.

Agulian, S. K. See **Khuri, R. N.**, 3233.

Ahuja, J. N., Kaplan, A., and **Van Dreal, P.** Removal of inorganic iodide in the automated serum protein-bound iodine determination, 2945.

Aiache, J. M. See **Febvre, P.**, 3008.

Aikhodzhaev, B. I. See **Eliseeva, L. M.**, 2835.

Ajl, S. J. See **Furmanski, P.**, 2350.

Ajmal, A. I. See **Hashmi, M. H.,** 2870.

Akaiwa, H., and **Kawamoto, H.** Spectrophotometric determination of manganese with dithizone using the synergistic effect of pyridine, 164.

— **Kawamoto, H.,** and **Hara, M.** Extraction-spectrophotometry of nickel with 2-thenoyltrifluoroacetone by use of a synergistic effect, 2122.

— See also **Kawamoto, H.,** 3446.

Akatsuka, K. See **Watanabe, H.,** 65, 2632.

Akent'eva, N. A. See **Zhdanov, A. K.,** 3303.

Aker, N. L., Schanderl, S. H., and **Leeling, N. C.** Gel-permeation clean-up for malathion in wheat, 3117.

Akerman, K., Brafman, M., Biala, N., Kierzek, J., and **Wojnowski, A.** Determination of fluorine in fluorides and in aluminium electrolytes by indirect neutron absorption, 3433.

Akhmanova, M. V. See **Karyakin, A. V.,** 111.

Akhmedli, M. K., and **Melikov, A. A.** Extraction-photometric determination of samarium and study of the structure of its complex with Alizarin red S and phenazone by i.r. spectroscopy, 2027.

Akimov, N. P. See **Terent'eva, E. A.,** 914.

Akimov, V. K. See **Busev, A. I.,** 3263.

Akkerman, O. S. Device for cleaning and drying NMR sample tubes, 2512.

Akmaeva, N. L., Dedkov, Yu. M., and **Khramov, V. P.** Spectrophotometric study of complexes of rare-earth metals with arsenazo AE, 88.

Akolkar, S. B. See **Viswanadham, C. R.,** 2673.

Akopyan, O. A. Comparison of absorptiometric determinations of atropine, 1663.

Aksenenko, E. G. See **Aksenenko, V. M.,** 1458.

Aksenenko, V. M., and **Aksenenko, E. G.** Potentiometric differentiating titration of 2-nitro-alcohols, 1458.

Akulovich, V. M. See **Proleskovskii, Yu. A.,** 3984.

Akune, S. See **Mukai, J.-I.,** 436.

Alam, M. Z. See **Shellard, E. J.,** 1665.

Albandov, A. A. See **Bagbanly, I. L.,** 876.

Albasini, A. See **Coppini, D.,** 3051.

Albee, A. L. See **Bence, A. E.,** 878.

Albert, F. M., Aftalion, H., and **Simionovici, R.** Determination of organic bases and quaternary ammonium salts of pharmaceutical interest by means of anionic surface-active substances, 2376.

— **Butuceanu, E.,** and **Cupfer, M.** Complexometric determination of aromatic amines, 3538.

— See also **Simionovici, R.,** 3770.

Albert, P., Blouri, J., Cleyrergue, C., Deschamps, N., and **Le Hericy, J.** Neutron-activation determination of sulphur and phosphorus in very high-purity aluminium, copper, magnesium, iron and nickel: new source of error after irradiation with slow neutrons. I. Determination of sulphur and phosphorus in aluminium and magnesium, 2702; II. Determination of sulphur and phosphorus in copper, 2702; III. Determination of sulphur and phosphorus in iron and nickel, 2702.

Alchimowicz, J., Siutowicz, K., and **Zwierzak, K.** Potentiometric determination of inorganic sulphates in alkylnaphthalenesulphonate detergents, 3574.

Alcock, N. W. A poly(tetrafluoroethylene) diffusion-cell, 3148.

Aldersley, K., Cripps, F. H., and **Sawyer, A. E.** Effects of sampling and sample pre-treatment on the determination of carbon in uranium, 2654.

Aldous, K. M., Dagnall, R. M., Thompson, K. C., and **West, T. S.** Preliminary studies of the analytical potentialities of the atomic-hydrogen plasma torch, 1894.

Alekperov, R. A., and **Makov, N. N.** Co-extracti of ruthenium with naphthenates of other meta 2755.

Aleksandrov, A. V. See **Vasileva-Aleksandrova,** 481.

Aleksandrova, A. N. See **Levi, L. I.,** 2109.

Aleksandrovich-Mel'nikova, A. S. See **Baranovi E. N.,** 3443.

Alekseeva, L. E. See **Bashkovich, A. P.,** 3749.

Alekseeva, N. N. See **Chumachenko, M. N.,** 3489.

Alekseeva, V. M., Rusanov, A. K., and **Il'yaso N. V.** Spectrographic determination of sm amounts of niobium and tantalum in miner after chemical concentration, 2075.

— See also **Rusanov, A. K.,** 2669.

Aleksiev, A. A. See **Bonchev, P. R.,** 2610.

Alerton, L. E. See **Peppers, N. A.,** 3192.

Aleskovskii, V. B. See **Mukhin, N. N.,** 2078.

Alessio, L. See **Pabis, A.,** 2336.

Alexa, J. Suitability of macro-porous catio exchange resins for ion-exchange chromatograph 2472.

Alexander, P., Lau, J. P., and **Sahagian, A.** Chemical separation and spectroscopic exami tion of fission gases, 2656.

Alexander, T. G., and **Robertson, J. A.** Ascor acid as a reductant for total phosphorus det mination in soils, 3093.

Alexander, W. D. See **Boddy, K.,** 1.

Alexandrov, K. See **Vendrely, R.,** 1089.

Alexandru, R. See **Liteanu, C.,** 1954.

Alfes, H. See **Moellmann, H.,** 1313, and **Reisch,** 1702, 2357.

Ali, S. See **Hashmi, M. H.,** 1426.

Alian, A. Standard addition for yield determi tion in radiochemical separation by solve extraction, 669.

— **Sanad, W.,** and **Shabana, R.** Extraction protactinium from mineral acid - alcohol med 3369.

— and **Zaborenko, K. B.** Extraction of thori and cerium^{III} chlorides by neutral orga phosphorus solvents, 2647.

Alimarin, I. P., Abdel Razik, F. A., Vinogrado E. N., and **Kamenev, A. I.** Influence of conta electrode metal during determination of indi by anodic-stripping voltammetry, 770.

— and **Petrikova, M. N.** Ultra-micro chemi analysis. IX. Photometric determinatio 2517.

— **Savvin, S. B.,** and **Okhanova, L. A.** Arsen III and its analogues. V. Complex format of niobium with *oo′*-dihydroxyazo-compoun 3414.

— **Yakovlev, Yu. V., Miklishanskii, A. Z., Dogadki N. N.,** and **Stepanets, O. V.** Determination dysprosium, europium, samarium and gadolini in high-purity yttrium oxide by neutron-acti tion analysis, 1374.

— See also **Bilimovich, G. N.,** 3353, **Ershova, N.** 2097, and **Gibalo, I. M.,** 137.

Ali-Zade, T. D. See **Bagbanly, I. L.,** 2072.

Alkemade, C. T. J. Applications of atomic-abso tion spectrophotometry, 3203.

Allen, D. M. See **Youssef, F. G.,** 1576.

Allen, J. L. Gas-chromatographic separation a quantitative estimation of mixed barbiturates solid dosage forms, 1682.

Allen, R. H. See **Logan, J. E.,** 1531.

Alling, C., Svennerholm, L., and **Tichy, J.** Fa acid composition of serum cholesteryl es fractions isolated by TLC, 1030.

Allsopp, P. F. See **United Kingdom Ato Energy Authority,** 1218.

nagro Huertas, V. Polarographic determination f copper, cadmium, lead and zinc in sintered-luminium powder, 72. Experimental radio-netric - polarographic technique, 661. See also **Warzanskyj, W.**, 3248.
nzo, N., and **Hirs, C. H. W.** Automated sample pplication in amino-acid analysers, 1602.
Samarai, A. M. See **Rudenko, N. P.**, 2029.
enau, A. G., Kiminecz, R., Carlson, D. W., and **Woolf, J. E.** Determination of hydroxyl content of alcohols and phenols by nuclear magnetic esonance, 239. See also **Cook, W. S.**, 2248.
mann, A. E., Beeuwkes, H., Brombacher, P. J., Buytendijk, H. J., Gijzen, A. H. J., and **Maesen, F. P. V.** Determination of serum levels of tetracycline after administration in different forms, 1551.
-Wattar, J. See **Gershbein, L. L.**, 1620.
ymova, T. E. See **Sazonov, M. L.**, 881.
nador, E. See **Franey, R. J.**, 3671.
nal, H., and **Demir, S.** Reaction of sulphadiazine with sodium 1,2-naphthaquinone-4-sulphonate, 3001.
Tulus, S., and **Sanli, I.** Reagent for detection of barbiturates by TLC, 2369.
nano, F. See **Kodama, T.**, 3691.
nano, S. See **Takagi, M.**, 3792.
nchem Products, Incorporated. Determination of nitrite in nitrite-accelerated aqueous acidic phosphatising solutions, 2683.
nerican Public Health Association, American Water Works Association and **Water Pollution Control Federation.** Tentative method for the determination of metals in water by atomic absorption, 3124.
nerican Water Works Association. See **American Public Health Association**, 3124.
nin, S. W. See **Wahba, S. K.**, 2387.
ninov, S. N., and **Terent'ev, A. B.** GLC of fatty acids and their derivatives, 250.
nmann, E. C. B., and **Galvin, R. D.** Problems in determination of carbon dioxide by infra-red absorption, 2664.
nmon, R. See **Berninger, H.**, 3639.
nor, A. F., and **Block, M.** Simply-constructed flow-sensitive switch, 3141.
norim, H. V. de, and **Silva, D. M.** Determination of the *o*-diphenol oxidase activity of coffee beans, 3812.
normino, V., Bellomonte, G., Carelli, G., and **Cingolani, E.** Gas-chromatographic determination of testosterone esters in mixtures, 475.
— **Bellomonte, G.**, and **Cingolani, E.** Separation and determination of flavonoid derivatives in pharmaceutical mixtures, 470. Separation and determination of testosterone esters in oily solutions, 474.
mos, R. Spectrophotometric determination of aliphatic alcoholic hydroxyl in esters with vanadium 8-hydroxyquinolinate, 259.
msheev, A. A. Photometric and complexometric determinations of tin in modified cast iron, 2740.
my, J. W. See **Chait, E. M.**, 1296.
na V., M. A. S. See **Santa Ana V., M. A.**
nand, K. S., Dayal, P., and **Anand, O. N.** Determination of zinc in lubricating oils and lubricating-oil concentrates: colorimetric micro-method employing zincon, 3567.
nand, O. N. See **Anand, K. S.**, 3567.
nashkina, N. P., Golikova, M. T., and **Tokarskaya, I. I.** Spectrophotometric determination of 4,5-dimethylphthalic anhydride in pyromellitic dianhydride, 2196.
Anastassiadis, P. A., and **Common, R. H.** Aspects of the reliability of chemical analyses, 4.
Anders, E. See **Barker, J. L., jun.**, 3129.
Anders, H. Determination of ethanol in blood by two-column GLC, 3634.
Anders, P. W. Amino-acid analysis in clinical chemistry, 1309.
Andersen, C. A., and **Wittry, D. B.** Evaluation of absorption-correction functions for electron-probe micro-analysis, 2488.
Andersen, G. H., Graber, F. M., Guinn, V. P., Lukens, H. R., and **Settle, D. M.** Photonuclear-activation analysis of biological materials for various elements, including fluorine, 1.
Andersen, N. R. See **Jadamec, J. R.**, 2582.
Andersen, S. I. See **Pollock, E. N.**, 2599.
Anderson, E. P. See **Ciardi, J. E.**, 433.
Anderson, J. See **Battye, C. K.**, 1.
Anderson, J. A. Fractionation of indole compounds on Sephadex G-10, 413.
Anderson, M. L., and **Hammer, R. N.** Conductimetric titrations in 1,1,3,3-tetramethylguanidine: study of weak acids, indicators and aromatic nitro-compounds, 1926.
Anderson, M. M. See **Schweitzer, G. K.**, 769.
Anderson, N. G. Analytical techniques for cell fractions. VIII. Analytical differential centrifugation in angle-head rotors, 1227; IX. Measurement and transfer of small fluid volumes, 1832.
Anderson, R. A., Perrizo, C., and **Fusari, S. A.** Automated analysis for vitamin A in multivitamin preparations, 2983.
Anderson, R. E. See **Perone, S. P.**, 1924.
Andersson, L. H., and **Bauren, E. B.** Spectrophotometric determination of plutonium, 2042.
— and **Gelin, B.** Determination of fluorine by Willard - Winter distillation and titration with thorium nitrate, 2093.
Ando, J., and **Lehr, J. R.** X-ray analysis of compounds in nitric phosphates, 2420.
Andrec, K. See **Socic, H.**, 1018.
Andreev, P. A. See **Kreshkov, A. P.**, 3546.
Andresen, K. See **Hansen, H. L.**, 1256.
Andrews, D. G. Adapter for external control of reference-beam attenuation on the SP100 spectrophotometer, 2509.
Androsova, V. M., Seidov, N. M., and **Shabaeva, T. M.** Pyrolysis - gas chromatography of ethylene - propene elastomers, 2259.
Angell, G. R. See **Price, N. B.**, 201.
Anger, V. Divergent behaviour of organic compounds in spot reactions: analytical evaluation, 208.
Anikina, L. I. See **Dobrolyubskaya, T. S.**, 784.
Anisimova, G. F., and **Klimova, V. A.** Coulometric determination of hydrogen in organic substances, 2777.
Anisimova, L. G. See **Bagdasarov, K. N.**, 757.
Ankudinova, M. M. See **Tserkovnitskaya, I. A.**, 3396.
Ansell, G. B., and **Beeson, M. F.** Combined assay of noradrenaline, dopamine and 5-hydroxytryptamine in a single sample of brain, 1598.
Ansell, G. S. See **Judd, G.**, 1310.
Anselmo, V. C., Wolters, F. M., and **Sun, C.-T.** Absorption spectrum of phosphorus^{III} iodide, 125.
Anson, F. C. See **Hubbard, A. T.**, 658.
Anstine, W. D. See **Sturrock, P. E.**, 667.
Anton, A. Analysis of copolyamides by GLC, 2237.
Antonescu, I., and **Caramlau, M.** Extraction - photometric determination of oxidants. II. Photometric determination of the silver^{I} ion, 2595.
Antonov, V. N. See **Temkina, V. Ya.**, 833.
Antonovich, V. P. See **Nazarenko, V. A.**, 772.

Antweiler, H. J. Recording of the concentration and concentration-gradient curves of protein fractions of serum or plasma, 1313.
Ant-Wuorinen, O., and **Visapaa, A.** Titration studies of base-binding capacity of cellulose at different pH levels. I, 320; II, 320.
Anwar, M., Hanson, C., and **Patel, A. N.** GLC of pyridine homologues and of isomeric chloroanilines and toluidines, 1481.
Aoyama, T. See **Sasaki, Shin-ichi,** 1913.
Apatoff, J. B. See **Norwitz, G.,** 978.
Apostolescu, M. See **Schiopu, M.,** 2929.
Appel, S. See **Knedel, M.,** 1313.
Appelt, J. See **Kulhanek, V.,** 1079.
Appius, M. Method of weighing with the Microwa balance, 583.
Appleton, M. D. See **Orsulak, P. J.,** 1080.
Applied Research Laboratories Incorporated. Applications of a peaked monochromator, 1265.
Apsit, A. A., and **Yanson, E. Yu.** Physico-chemical properties of phenyldithioacetic acid and its qualitative reactions with metal ions, 3278.
Aragones-Apodaca, R. Study of industrial processes by paper chromatography: synthesis of the dye intermediate 4,4′-dinitrostilbene-2,2′-disulphonic acid, 2231.
Arakelyan, V. G., Sarycheva, L. S., and **Evdakov, V. P.** GLC of organic substances in cyclohexane, 2187.
Araki, H. See **Takahashi, T.,** 2200.
Araki, S., and **Hobo, T.** Qualitative analysis of alkylbenzenes by means of pyrograms, 2189.
Aramaki, H., Tomiyasu, N., Yoshimura, H., and **Tsukamoto, H.** Forensic chemical study on marihuana. I. Detection of the principal constituents by TLC and GLC, 1664.
Aranda, E. S. See **Rader, B. R.,** 1661.
Araten, D. Molten ionic oxides as chemical reagents, 680.
Aravamudan, G., and **Venkappayya, D.** Determination of dimethyl sulphoxide with chloramine T, 2804.
Arcenaux, D. See **Guilbault, G. G.,** 2968.
Archer, T. E. Determination of combinations of 2-(4-t-butylphenoxy)-1-methylethyl 2-chloroethyl sulphite, DDT, camphechlor and endrin in crop residues, 1805.
Archer, V. S., Doolittle, F. G., and **Young, L. M.** Spectrophotometric determination of tetrafluoroborate with tris-(1,10-phenanthroline - iron^{II} sulphate, 3347.
Ardashnikova, V. D. See **Bykova, L. N.,** 3537, and **Kreshkov, A. P.,** 2144.
Arens, A. See **Vegner, V.,** 2816.
Arens, J. F. See **Tommel, D. K. J.,** 1067.
Argoudelis, C. J., and **Perkins, E. G.** Determination of double-bond position in mono-unsaturated fatty acids by GLC - mass spectrometry, 3818.
Arias, G. F. See **Seeger S., B.,** 12.
Arich, G., and **Volpe, S.** Correlation between retention characteristics and structure for alkylnaphthalenes and their reduction products, 2815.
Arikawa, Y., Ozawa, T., and **Iwasaki, I.** Photometric determination of sulphite with pararosaniline and formaldehyde, 2703.
Arishkevich, A. M. See **Usatenko, Yu. I.,** 796.
Arizan, S., Uricaru, N., and **Simionovici, R.** Determination of moroxydine hydrochloride, 3781.
Arkhangel'skaya, A. S., and **Batalina, G. P.** Difference-photometric analysis of constructional and soldering alloys based on copper, molybdenum and manganese, 699.
— See also **Molot, L. A.,** 767, and **Mustafin, I. S.,** 760.
Armeanu, V., Baloiu, L. M., and **Damian,** Photochronometric determination of traces gold^{III}, 1353.
— **Costinescu, P.,** and **Calin, C. G.** Spectrophot metric micro-determination of iron^{III} with hydroxy-1-nitro- and 4-bromo-3-hydroxy-2-nap thoic acids, 855. Spectrophotometric determin tion of lead by means of azo-dyes derived fro anthranilic acid, 2056.
— and **Diamandescu, E.** Absorptiometric micr determination of iron^{III} with furoin α-oxim 854.
Armiriotis, J. See **Kostalas, H. A.,** 713.
Armstrong, D. E. See **Pionke, H. B.,** 2442.
Armstrong, F. A. J., and **Tibbitts, S.** Apparatus f photochemical combustion of organic matter sea-water: determination of nitrogen, phosphor and carbon, 1233.
Armstrong, W. D. See **Singer, L.,** 364.
Arnautov, N. V., and **Kireev, A. D.** Spectrograph determination of sulphur, carbon and phosphor in iron and steel, 184.
Arnett, W. A. See **Templeton, R. J.,** 2386.
Arnold, R. G., and **Lindsay, R. C.** Identificati and determination of 2-furaldehyde in sterilis concentrated milk, 510.
— See also **Scanlan, R. A.,** 3178.
Arnol'dov, M. N. See **Ivanovskii, M. N.,** 45.
Aronson, J. N. See **Borris, D. P.,** 627.
Arora, S. K., and **Bhatnagar, C. S.** Potentiomet titration of 4-aminobenzoic acid and 1-naphth amine with sodium nitrite solution in the preser of hydrochloric acid, 3542.
Arret, B., and **Eckert, J.** Developments in antibio 'interference thresholds' of microbial assays, 16
Arruda, A. A. R. See **Zucas, S. M.,** 3012.
Arshakuni, R. G. Mass-spectrometric determinati of silicon in germanium, 2050.
Arthur, P., Rulison, D. S., and **Berlin, K. D.** Seal polarographic cell for prolonged studies of re tions at the dropping-mercury electrode, 3240.
— See also **Rulison, D. S.,** 1841.
Arthur, R. J. See **Clark, B. R.,** 3672.
Artsruni, V. Zh. See **Tarayan, V. M.,** 2634.
Asahara, T. See **Hayano, S.,** 1494.
Asami, T. Determination of minute quantities water in gas or liquid by the use of cobalt chloride indicator, 42.
Asandei, N. N. See **Denes, F.,** 230.
Aseem, E. M. See **Garber, C.,** 3000.
Aseev, V. I. See **Dantsig, G. A.,** 1257.
Asensi Mora, G. Separation and determination trace elements by liquid - liquid extraction, 7
Ashraf, M., Siddiqui, M. A., and **Bhatty, M.** Micro- and semi-micro determination of orga nitrogen by use of potassium bromate, 2778.
Ashworth, L. J., jun. See **McMeans, J. L.,** 3654.
Asmus, E., and **Seifert, B.** Photometric determi tion of potassium ferrocyanide in common s 3810.
Assmann, K., Geppert, G., and **Serfas, O.** pregnation of column packings for use in chromatography at higher temperatures, 608.
Associated Electrical Industries Ltd. Impro electrode systems for titrimeters, 1307.
Asteleanu, M. See **Ceausescu, D.,** 1182.
Asztalos, I., Fukker, K., and **Gado, P.** Quantitat X-ray fluorescence analysis of thin chromiu nickel layers, 2087.
Atanasova, B. V. See **Ganchev, N.,** 758.
Atay, O. See **Kiper, M.,** 2993.
Ateya, B. See **Khalifa, H.,** 38, 2086.

thavale, V. T., Krishnamurthy, K. R., and **Venkateswarlu, C.** Extraction of titanium^{IV} gallate into tri-iso-octylamine and its spectrophotometric determination, 118.

tlantic Refining Co. See **Atlantic Richfield Co.,** 1245.

tlantic Richfield Co. Preparative gas-chromatographic columns, 1245.

ttia, A. I. See **Burroughs, J. E.,** 223.

twood, G. R. See **Dunnery, D. A.,** 3511.

ubouin, G., and **Laverlochere, J.** Improvement of chemical separations on ion-exchange resins: influence of particle size, 1880.

udidier, Y., Gueriviere, J. F. de la, Seince, Y., and **Benoualid, K.** Determination of damaged starch in wheat flour with bacterial α-amylase, 505.

ue, W. A. See **Tindle, R. C.,** 1187.

uerbach, M. E. See **Pratt, E. L.,** 3112.

ult, R. G. Determination of vicinal diketones in beer, 1763.

urenge, J., and **Gelpi, L.** Qualitative separation and quantitative analysis of tannins by TLC, 976.

ures, D., Bjorklund, A., and **Hakanson, R.** Microspectrofluorimetric identification of noradrenaline and 5-hydroxytryptamine by TLC, 1313.

— **Fleming, R.,** and **Hakanson, R.** Separation and detection of biogenic amines by TLC: microanalysis for tissue amines and for enzymes involved in their metabolism, 414.

— **Hakanson, R.,** and **Spolter, L.** Sephadex ion-exchanger for the separation of biogenic amines, their precursors and their metabolites. I. Separation of imidazole compounds, 1313.

Averill, W. Analysis of essential oils with the Perkin-Elmer model 270 gas chromatograph - mass spectrometer, 2228.

Avron, M. See **Hegesh, E.,** 3728.

Axtmann, R. C. See **Joye, D. D.,** 1419.

Ayad, S. R., Bonsall, R. W., and **Hunt, S.** Production of accurate linear gradients by using a constant-speed peristaltic pump, 587.

Ayras, P. See **Paasivirta, J.,** 271.

Ayres, G. H. See **Embry, W. A.,** 3472.

Azhipa, L. T., Kovalenko, P. N., and **Evstifeev, M. M.** Reduction and determination of lutetium and dysprosium by a.c. polarography, 2645.

B

Baasch, G. See **Senger, H.,** 3660.

Babad, H., Herbert, W., and **Goldberg, M. C.** NMR studies of phosphorus^{V} pesticides. I. Chemical shifts of protons as a means of identification of pesticides, 1809.

— **Taylor, T. N.,** and **Goldberg, M. C.** NMR studies of phosphorus^{V} pesticides. II. Determination of the isomer ratio of demeton, 553.

Babenko, A. S., and **Volodchenko, T. T.** Use of cylindrical cells for improving the determinable minimum in measurements with a FEK-M absorptiometer, 4015.

Babenko, N. L. See **Busev, A. I.,** 75.

Babiec, J. S., jun., Barrante, J. R., and **Vickers, G. D.** Characterisation of primary, secondary and tertiary alcohols by proton magnetic resonance, 234.

Babkin, M. P. Kinetic colorimetric determination of 1- or 2-naphthol, 3550.

Babko, A. K. Use of ternary complexes in analytical chemistry, 3259.

— and **Danilova, V. N.** Extraction of diantipyrinylmethane - thiocyanate complexes of cadmium, 755.

Babko, A. K., Danilova, V. N., and **Kaplan, M. L.** Concentration of cobalt, indium and tin in the spectrochemical analysis of cadmium, 67.

— **Markova, L. V.,** and **Lukovskaya, N. M.** Chemiluminescence determination of traces of iodine, 2730.

— and **Pilipenko, A. T.** Photometric methods: progress report, 3.

— **Volkova, A. I.,** and **Get'man, T. E.** Comparison of reagents for fluorescence determination of aluminium. II. Fluorescence quantum yields of aluminium complexes with some organic reagents in various solvents, 2016.

Babukh, V. P. See **Kheifets, V. I.,** 1524.

Bacallao, C. Z. See **Sandberg, D. H.,** 1002.

Bacaloglu, R. See **Nanu, I.,** 965.

Bacaud, R. See **Urbain, H.,** 2126.

Bache, C. A., and **Lisk, D. J.** Microwave-emission analysis of residues of carbamate and triazine pesticides, 2428.

— **St. John, L. E., jun.,** and **Lisk, D. J.** GLC of insensitive pesticides as their halomethyldimethylsilyl derivatives, 2430.

Bachelard, E. P. Interference of perchloric acid with the anthrone reaction for carbohydrates, 2897.

Backer, E. T., and **Pileggi, V. J.** GLC of iodo-amino-acids and iodinated contrast media as their trimethylsilyl derivatives, 3703.

— See also **Wiener, J. D.,** 997.

Baczuk, R. J., and **DuBois, R. J.** Potentiometric titration of perchlorate with tetraphenylarsonium chloride and a perchlorate-ion-specific electrode, 850.

Bader, H. See **Brandenberger, H.,** 2617.

Badinschi, L. See **Liteanu, C.,** 698.

Bael, N. G. See **Lyalikov, Yu. S.,** 550.

Baer, E. Differentiation of nitrogenous phospholipids by i.r. spectrophotometry, 3670.

Baerwald, G. See **Drews, B.,** 1762, 1764.

Baetz, A. L., and **Diehl, H.** Separation, on a Sephadex column, of a complex mixture of azo-dyes used as fluorimetric chelating agents, 1503.

Bagbanly, I. L., and **Albandov, A. A.** Rapid and accurate determination of platinum with Reinecke salt, 876.

— **Ali-Zade, T. D.,** and **Radzhabova, F. M.** Determination of vanadium and molybdenum in catalysts, 2072.

— **Guseinov, I. K.,** and **Rustamov, N. Kh.** Photometric determination of indium, 1370. Volumetric iodimetric determination of indium, 2629.

— and **Rzaev, B. Z.** Reineckate - iodatimetric determination of palladium, 3474.

Bagdasarov, K. N., Anisimova, L. G., and **Tataev, O. A.** Use of 5-nitro-2-furaldehyde semicarbazone for the photometric determination of mercury, 757.

— **Kovalenko, P. N.,** and **Shemyakina, M. A.** Complexes of indium, cadmium and bismuth with xylenol orange for photometric determination of these elements, 3300.

Bagdoyan, H. See **Bradbury, M. W. C.,** 2860.

Baggi, T. R., Mahajan, S. N., Rao, G. R., and **Bami, H. L.** Determination of thiacetazone in thiacetazone - isoniazid tablets, 1705.

Baginski, E. S., Foa, P. P., Weiner, L. M., and **Zak, B.** Micro-determination of nucleic acid phosphate, 435.

Baglin, F. G. See **Durig, J. R.,** 2511.

Bahmueller, S. See **Schoenberger, E.,** 2578.

Bahr, H., and **Lipinska, I.** Spectrophotometric determination of copper with 2,2′-biquinolyl, 730. Conductimetric determination of water-soluble substances in inorganic pigments, 2849.

Baidarovtseva, M. A. See **Sokolov, D. N.**, 2611.
Bailey, J. V. See **Wagman, G. H.**, 3748.
Bailey, R. E., Under, O. M., and **Grettie, D. P.** Combination dry- and liquid-sample injector for GLC, 2457.
Bailey Meter Co. Improved gas analysers for determining the oxygen content of a gas, 3906.
Bain, E. C. See **Fisher, R. M.**, 677.
Baird, A. K., and **Welday, E. E.** Precision and accuracy of silicate analyses by X-ray fluorescence, 1310.
Bajaj, K. L. See **Chopra, S. L.**, 1780.
Bakacs-Polgar, E., and **Kurcz-Csiky, I.** Determination of radio-strontium in fall-out and mud samples, 2434.
Baker, T. W., George, J. D., Bellamy, B. A., and **Causer, R.** Fully automated, high-precision X-ray diffraction, 1310.
Baker, W. L. See **Gehrke, C. W.**, 3100.
Balachandran, K., and **Banerji, S. K.** Spectrophotometric estimation of iron^{III} with 5-bromo-8-hydroxyquinoline-7-sulphonic acid, 2735.
Balakireva, N. A. See **Levin, I. S.**, 78.
Balbaa, S. I., Zaki, A. Y., and **Abdel-Wahab, S. M.** Micro-determination of khellin in presence of other constituents of *Ammi visnaga* fruits, 465.
Balcarek, J. Photometric determination of copper in zinc, 62.
Baldova, N. I. See **Rudnevskii, N. K.**, 2614.
Baldwin, A. J. See **Kirby, J. R.**, 963.
Balenovic-Solter, A., Tomaskovic, M., and **Stefanac, Z.** Spectrophotometry of the metal complexes of 2,5-dibenzoyl-3,4-dihydroxyselenophen, 13.
Baletskaya, L. G., Pichugina, V. M., and **Zakharov, M. S.** Determination of traces of copper by anodic-stripping voltammetry in materials used in the production of phosphors. II. Determination of copper in calcium hydrogen phosphate and carbonate, 59.
— **Zakharov, M. S., Lel'chuk, Kh. A.,** and **Pichugina, V. M.** Determination of traces of copper by anodic-stripping voltammetry in materials used in production of phosphors. I. Determination of copper in antimony trioxide and in de-ionised water, 733.
Balica, G., Piscati, V., and **Simion, S.** Applications of *N*-bromoacetamide in organic analysis. I. Determination of formic acid in synthetic acetic acid, 3515.
Ball, D. L., Harris, W. E., and **Habgood, H. W.** Selection of optimum position for measuring widths of chromatographic peaks with minimum error in area, 2453.
Ballantyne, B. Potentiometric pH-stat titration in assay of cholinesterases: importance of an inert atmosphere in reaction vessels when using alkali titrant, 1099.
Ballaux, C., Dams, R., and **Hoste, J.** Neutron-activation analysis of high-purity selenium. II. Determination of tellurium, 831.
Ballieux, R. E. See **Jaques, L. B.**, 1571.
Ballinger, J. T., Bartels, T. T., and **Taylor, J. H.** Gas-chromatographic fraction trap - i.r. cell, 1874.
Ballman, A. A., Dodd, D. M., Kuebler, N. A., Laudise, R. A., Wood, D. L., and **Rudd, D. W.** Synthetic quartz with high u.v. transmission, 4003.
Ballschmieter, H. M., and **Germishuizen, P. J.** GLC investigation of the influence of roasting temperature on the composition of gases evolved during the roasting of groundnuts, 3807.
Ballschmiter, K. See **Gruenert, A**, 1404.
Baloiu, L. M. See **Armeanu, V.**, 1353.
Balundo, T. See **Pawelczyk, E.**, 3780.
Bamesberger, W. L. See **Adams, D. F.**, 1196.
Bami, H. L. See **Baggi, T. R.**, 1705.
Banasiak, Z. See **Baranowska, B.**, 3860.
Bancher, E., Washuettl, J., and **Olfat, M. D.** Quan tative determination of amino-acids on the ba of spot size by two-dimensional TLC, 2933.
Bandyopadhyay, C. See **Chakrabarty, M. M.**, 380
Bandyopadhyay, S. S. Determination of the c stituents of anti-spasm tablets containing codei phosphate, amidopyrine, phenacetin, phen barbitone and phenolphthalein, 485. Dir complexometric titration for the analysis antacid tablets containing magnesium trisilica heavy magnesium carbonate, dried aluminiu hydroxide gel and dried aluminium glycinate, 4
Banerjee, B. K. See **Singhal, K. C.**, 3842.
Banerji, A. C. See **Singhal, K. C.**, 3842.
Banerji, S. K. See **Balachandran, K.**, 2735.
Banker, G. S. See **Goodman, H.**, 3767.
Banks, K. A., and **Bills, D. D.** GLC identification chlorinated insecticides based on their degrad tion by u.v. radiation, 547.
Bannard, L. G., and **Burton, J. D.** Spectropho metric determination of vanadium^{V} with 3, dimethylnaphthidine, 131.
Banyai, E., and **Szabadvary, F.** Radiochemi extractive micro-determination of bromide a chloride, 2729.
Barabanov, N. N., and **Polyakova, V. M.** Ultraso determination of water in acetic acid solutions cellulose acetate, 1505.
Baradat, J. See **Kulbicki, G.**, 106.
Barakat, M. F., and **Zahran, A. H.** Tritium ass of labelled organic compounds by the fl monitoring counter, 3485.
Baran, V. Neutralisation analysis of aque solutions of uranium^{IV} salts, 2038.
Baranovich, E. N., and **Aleksandrovich-Mel'niko A. S.** Gallein as metal indicator for comple metric titration of iron^{II} and iron^{III}, 3443
Baranowska, B., and **Banasiak, Z.** Comparison the binding rate of carbon disulphide in so solutions used for absorbing carbon disulph vapours, 3860.
Baranowski, R., Gregorowicz, Z., and **Kulicka,** Polarographic analysis of the oxidation produ of *p*-xylene, 2807.
— See also **Gregorowicz, Z.**, 2226.
Barbaras, R. See **Voinovitch, I. A.**, 2143.
Barbati, C. See **Prevot, A.**, 236.
Barber, E. D., and **Sawicki, E.** Separation a identification of aromatic carbonyl compou as their 4-nitrophenylhydrazones by paper a thin-layer chromatography, 1820.
Barber, M., Chapman, J. R., and **Wolstenhol W. A.** Lipid analysis by coupled mass spect metry - GLC. I. Diglycerides, 258.
Barbier, F., and **DeWeerdt, G. A.** TLC and spectrophotometry of commercial sodium sulp bromophthalein solutions, 1709.
Barboriak, J. J. See **Chang, C. M.**, 1082.
Barbov, V. See **Derzhanski, A.**, 4010.
Barbu, S. See **Grecu, I.**, 2378, 2994, 3002, 3006.
Bard, A. J. [Analytical reviews, 1968]—Elec analysis and coulometric analysis, 677. Elec analytical chemistry. Vol. III, *Book*: (
— See also **Bowman, J. T.**, 3245.
Bared, A. G. M. See **Maa Bared, A. G.**
Barefoot, R. D. See **Tompa, A. S.**, 326.
Barenboim, G. M., Domanskii, A. N., and **Turove K. K.** Luminescence of biopolymers and c *Book*: Nov.
Barford, R. A. See **Luddy, F. E.**, 3819.

rish, W. B., Behnke, G. T., and **Nakamoto, K.** Laboratory preparation of polyethylene pellets, 3221.

rk, L. S. See **Graham, R. J. T.,** 1968.

rker, J. L., jun., and **Anders, E.** Determination of iridium and osmium contents of deep-sea sediments, 3129.

rker, S. A., Kennedy, J. F., Somers, P. J., and **Stacey, M.** Flame-photometric micro-determination of sulphate content of carbohydrates, 1015.

rkhan, P. See **Raven, J. L.,** 2960.

rkovic, D. See **Movrin, M.,** 934.

rlow, I. C., and **Van Valkenburg, R. K.** Thin-film analysis of gadolinium iron oxide and gadolinium - iron by a combined ion exchange - X-ray fluorescence method, 2643.

rnard, A. J., jun. See **Flaschka, H.,** *Book*: Nov.

rnes, V. GASPAN: an advanced computer code for analysis of high-resolution gamma-ray spectra, 676.

rnes Engineering Co. Portable collecting device for obtaining vapour-phase pyrolysate samples of materials for i.r. analysis, 4008.

rness, L. A. See **Whereat, A. F.,** 3657.

rnett, R. L., jun. See **Lawson, J. R.,** 14.

rney, J. E., II. See **Rosebrook, D. D.,** 1742, 1743, 1744.

rosi, A. Polarographic determination of zinc in nickel-plating baths, 192.

arrante, J. R. See **Babiec, J. S., jun.,** 234.

arrenechea, M. L. A. See **Acena Barrenechea, M. L.**

arrera Pinero, R., Gasco Sanchez, L., and **Cruz Castillo, F. de la.** Analysis of carbonyl constituents of fruit aromas by GLC of the 2,4-dinitrophenylhydrazones, 2405.

arrett, C. S. Advances in X-ray analysis. Vol. XI, *Book*: Oct.

arrett, J., Puckett, R., and **Poe, R. D.** Spectrophotometric determination of strychnine phosphate in the presence of magnesium stearate, 2354.

arrett, J. D. See **Bayfield, R. F.,** 3727.

arringer Research Ltd. Ultra-violet spectrophotometer for determination of gases, 1281.

arros Correa, D. de. See **Correa, D. de B.**

arrow, N. J. Determination of elementary sulphur in soils, 3835.

arry, K. G. See **Brooks, M. H.,** 3624.

arry, P. J. See **Chatten, L. G.,** 1660.

ars, A. See **Kurosky, A.,** 1767.

artel, E. E., and **Walt, S. J. van der.** Reduction of plug length in capillary gas chromatography by using an on-column micro-trap, 3159.

artels, T. T. See **Ballinger, J. T.,** 1874.

artlet, J. C. Slope-sensing device for actuation of a gas-chromatograph automatic fraction-collector, 621.

— See also **Flann, B. C.,** 1720.

artnitskaya, T. S. See **Lyutaya, M. D.,** 3348.

arton, G. M. Detection of 3-hydroxyflavanones on paper chromatograms and thin-layer plates, 1625.

artz, A. M., and **Ruhl, H. D., jun.** Process control via i.r. analysers, 4009.

aryshnikov, Yu. N., and **Kvasov, A. A.** Iodimetric determination of phenylzinc compounds, 3547.

asargin, N. N. Selectivity of organic analytical reagents for metals: review, 11.

— and **Chernova, E. A.** Photometric determination of nitrate in soil with chromotropic acid, 2417.

ashar, A., and **Townshend, A.** So-called phenylthiohydantoic acid: structure and application to the gravimetric determination of cobalt, 186.

ashkirov, A. N. See **Kolesnikova, L. P.,** 3534.

Bashkovich, A. P., Prokopovich, A. V., and **Alekseeva, L. E.** Spectrophotometric and colorimetric determinations of hygromycin B, 3749.

Basilio, M. See **Viswanathan, C. V.,** 1028.

Basinska, H., and **Tarasiewicz, M.** Analytical application of chlorpromazine hydrochloride. I. Properties and application to determination of bismuth, 820.

Basinska, M., and **Rutkowski, W.** Spectrophotometric determination of trace amounts of rhenium, 3441.

— See also **Rutkowski, W.,** 2628.

Bass, G. I. See **Pimkin, V. G.,** 2801.

Bassette, R., Brewington, C. R., and **Schwartz, D. P.** Isolation and characterisation of constituents of natural products. VIII. GLC of alcohol ester, amide and thioester derivatives of pyruvic acid 2,6-dinitrophenylhydrazone, 2158.

Basson, W. D., Stanton, D. A., and **Boehmer, R. G.** Automated simultaneous determination of phosphorus and nitrogen in plant tissue, 363.

Bastiaanse, A. J., and **Meijers, C. A. M.** Micro-determination of inorganic phosphate in serum and urine, 2872. Micro-determination of serum lipid phosphorus, 2873.

Bastijns, L. J. GLC study of influence of diet on the composition of the fatty acids of lard, 3024.

Basu, U. P. See **Moza, B. K.,** 3782.

Batalina, G. P. See **Arkhangel'skaya, A. S.,** 699.

Batel, W., Kieselkalt, S., and **Wilrich, P.-T.** Prufsiebung: Probenahme und Siebanalyse. Sixth Edn, *Book*: Nov.

Batelaan, P. H. See **Tadema, G.,** 277, 3706.

Bates, R. G. Standardisation of acidity measurements: extension of the pH concept to mixed solvents and heavy water, 1917.

— See also **Covington, A. K.,** 1303, and **Hetzer, H. B.,** 7.

Batora, V., Kovac, J., Benusova, M., and **Kovacicova, J.** Paper-chromatographic determination of an organophosphorus pesticide, 3118.

Battaglini, G. T. See **Ranky, W. O.,** 1498.

Battista, H. J., and **Machata, G.** Combination of GLC and TLC for toxicological analysis, 368.

—See also **Machata, G.,** 2888.

Battles, W. R. See **Meador, G. R.,** 302.

Battye, C. K., Tomlinson, R. W. S., Anderson, J., and **Osborn, S. B.** *In vivo* whole-body activation analysis in man, 1.

Baudisch, J., Beilstein, G., and **Neuenhausen, H. E.** Direct potentiometric determination of sulphate, 143.

Bauer, K. Chromatography of proteins and nucleic acids on paper and thin layers. II. Rapid chromatography: influence of the type of paper and graphical representation, 3709.

Bauer, K. H. Comparative determinations of moisture in pharmaceutical adjuvants, 1659.

Bauer, M., Cretu, E., Gafencu, M., Silvestru, S., Pavel, E., and **Grigorescu, E.** Chromatographic detection of chlortetracycline, sulphathiazole, chloramphenicol, nitrofurantoin and 1-phenylsemicarbazide in pharmaceutical preparations, 1108.

Baukal, A. See **Viktora, J. K.,** 2314.

Baumann, C. A. See **Ewan, R. C.,** 994.

Baumann, E. W. Trace-fluoride determination with specific-ion electrode, 2721.

Baun, W. L. See **Fischer, D. W.,** 1310.

Bauren, E. B. See **Andersson, L. H.,** 2042.

Bayer, E., Hagenmaier, H., Koenig, W., Pauschmann, H., and **Sautter, W.** Use of mass spectrometry in the sequence analysis of peptides, 1313.

Bayfield, R. F., Falk, R. H., and **Barrett, J. D.** Separation and determination of α-tocopherol and carotenoids in serum or plasma by paper chromatography, 3727.
Bazini, E. See **Lapid, Y.,** 91.
Bazzi, B., Abbruzzese, L., Fabbrini, R., Galluzzi, G., and **Radice, M.** Determination of dimethoate insecticides in technical products and in liquid formulations, 3854.
— and **Canale, G.** Colorimetric determination of phenthoate residues in oranges, lemons and tangerines: simultaneous determination of phenthoate and dimethoate in fruit treated with both pesticides, 525.
Beamish, F. E. See **Chung, K. S.,** 3476, and **Taylor, H.,** 2757.
Beatrice, E. S. See **Peppers, N. A.,** 3192.
Beattie, J. M. See **Demetriou, J. A.,** 1599.
Beaudet, C., and **Rygaert, J.** Radiometric determination of ionic chlorine and oxygen in water, 1826.
Bebesel, P. I., and **Turcanu, C. N.** Separation of carrier-free phosphorus-32 from elementary sulphur on a column of active carbon, 2686.
Bechara, I. S. See **Mosher, W. A.,** 1432.
Beck, L. V. See **McNeil, T. L.,** 421.
Beck, W. H., Bottom, A. E., and **Covington, A. K.** Errors of glass electrodes in certain standard buffer solutions at high discrimination, 656.
Becker, D. A. See **Smith, Gilbert W.,** 1.
Becker, R. S. Theory and interpretation of fluorescence and phosphorescence, *Book*: Nov.
Beckham, R. D., and **Libers, R.** GLC of C_1 to C_5 hydrocarbons, 229.
Beckman, H. F. See **Bevenue, A.,** 1868.
Beckman Instruments, Inc. Preliminary information sheets for atomic-absorption flame photometry, 709. Electrochemical electrode assembly, 1301. Improvements in cation-sensitive glass electrodes and their production, 1302. Preparation of a standard gas solution for carbon dioxide in blood, 2867. Construction of an i.r. monochromator, 3219. Improved optical systems for i.r. spectrophotometers, 3220. Electrochemical electrode assembly for ion-concentration measurements, 3234, 3235. Electrochemical cell for polarographic analysis, 3239.
Beckstead, H. D., and **Smith, S. J.** Detection of impurities in medicinal benzo-1,4-diazepines and related compounds by TLC, 2377.
Beckwith, A. C., and **Stoloff, L.** Fluorescence-densitometric measurement of aflatoxin on thin-layer chromatograms, 1737.
Becton, Dickinson & Co. Pipetting devices, 3897. Disposable pipette tips for attachment to pipettes, 3898.
Bedrosian, A. J., and **Lerner, M. W.** Determination of impurities in elementary boron by atomic-absorption and flame-emission spectrophotometry, 2011.
— **Skogerboe, R. K.,** and **Morrison, G. H.** Direct emission-spectrographic determination of trace elements in biological materials, 1533.
Beeson, M. F. See **Ansell, G. B.,** 1598.
Beeson, M. H. See **Gordon, G. E.,** 1429.
Beeuwkes, H. See **Altmann, A. E.,** 1551.
Beev, K. See **Sandev, S.,** 2422.
Behnke, G. T. See **Barish, W. B.,** 3221.
Behrends, K. Shape of analytical error curves, 679.
Behrendt, S. Infra-red analysis of GLC effluents, 1259.
Beider, T. B., Bochkareva, T. P., and **Kolesnikov V. M.** Analysis of spent sulphuric acid used f drying acetylene in the manufacture of viny chloride, 2838.
— **Bochkareva, T. P.,** and **Mikhaleva, E. S.** Dete mination of mono- and tri-nitrotoluene impuriti in dinitrotoluene by TLC, 1474.
Beilstein, G. See **Baudisch, J.,** 143.
Beindorf, H. See **Vondenhof, T.,** 3070.
Beining, K. See **Franzke, C.,** 3827.
Bekassy, S. See **Liptay, G.,** 609.
Beksheneva, N. M., Borshchenko, V. P., Ikonnikov A. I., Filimonova, K. V., and **Mar'yanov, B. N** Determination of pyromellitic acid in pyro mellitic dianhydride, 3592.
Belcher, C. B. See **Kinson, K.,** 859, and **Marce M. V.,** 2743.
Belcher, R. Amplification reactions: review, 678.
— and **Fleet, B.** Sub-micro determination carbon and hydrogen in organic compounds b GLC, 2773.
— **Ingram, G.,** and **Majer, J. R.** Pyrolytic b haviour of organic compounds in the determin tion of oxygen, 216.
— and **Townshend, A.** Consecutive titration iodate and periodate, 1414.
— and **Uden, P. C.** Determination of trace amoun of phosphorus by a double-amplification metho 2685.
Beldean, L. See **Macarovici, D.,** 2687.
Belen'kii, B. G. See **Nesterov, V. V.,** 3156.
Belia, B. E. See **Petrovic, S. E.,** 1645.
Belic, I. See **Socic, H.,** 1313.
Belisle, J., Green, C. B., and **Winter, L. D.** Samp decomposition via flow-through oxygen-fla combustion, 1435.
Belitz, H.-D., Wassner, H. P., and **Weder,** Proteinase inhibitors in foodstuffs. I. Occurren and thermal stability of inhibitors of trypsin an chymotrypsin in various peas and beans, 3050.
Bell, D., and **McArthur, K.** Colorimetric determin tion of boron in carbon steel and stainless steel, 142
Bell, T. K. Liquid-scintillation counting usi external-standard and channels-ratio techniqu for quench correction, 3252.
Bellamy, B. A. See **Baker, T. W.,** 1310.
Bellando, M., and **Fiussello, N.** Spectrophotomet determination of indole auxins, 1184.
Bellen, Z., and **Utnik, A.** Determination of i purities in benzoic acid. I. Spectrophotomet analysis for small amounts of aldehydes, 3536.
Bellmenn, S. See **Wang, R.-T.,** 2383.
Bellobono, I. R. Determination of isotope separ tion factors of carbon-14-labelled amino-acids ion exchange on resins with carboxyl groups, 16
Bellomonte, G. See **Amormino, V.,** 470, 474, 475.
Belopol'skii, M. P., Gumbar, K. K., and **Popov, N.** Determination of thorium in rocks and miner with separation of interfering elements by extra tion of their cupferron complexes into chlor form, 1379.
Belov, V. I., Berzin, A. K., Witozenc, H. C. a **Sulin, W. W.** Gamma-activation determinati of carbon and oxygen in coal, 2223.
Belova, T. A., Shreiberg, G. L., and **Epshtein, M.** Densitometric determination of urinary cortic steroids on thin layers of silica gel, 2922.
Bel'skaya, R. I. See **Emel'yanov, N. P.,** 276.
Belyaev, Yu. I., Ivantsov, L. M., and **Karyak A. V.** Atomic spectrographic analysis: progr report, 3.
— **Ivantsov, L. M., Karyakin, A. V., Pham Hoa Phi** and **Shemet, V. V.** Direct-current arc trace analysis by atomic absorption, 3281.

Belyavskaya, T. A., and **Dobrushina, G. D.** Sorption of zirconium from organic solvent - hydrochloric acid by ion-exchange resins, 119.

Belyavskaya, V. K., and **Kovalev, I. M.** Spectrographic determination of antimony in cast iron, 3459.

Belyavskaya, V. V., and **Kupriyanova, L. A.** Phase analysis of compounds of the system calcium oxide - zirconium oxide - silica, 3295.

Belyi, M. U., and **Kushnirenko, I. Ya.** Luminescence determination of ions of heavy elements at low temperature. I. Determination of traces of thallium^{I} and lead^{II}, 3301; II. Determination of traces of bismuth, antimony and selenium, 3301.

Benati, A. See **Lanza, P.,** 2276.

Bence, A. E., and **Albee, A. L.** Determination of empirical correction factors for electron-probe micro-analysis of silicates and oxides, 878.

Bender, D. F. TLC separation and spectrofluorimetric identification of dibenzo[*a,e*]pyrene, 1203.

Benes, J., and **Tomasek, M.** Radiochemical determination of caesium-137 in organic substances, 2783.

Benk, E. Determination of natural sodium, potassium, calcium and chloride contents of orange and lemon juices, 1164. Detection of pulp and peel extractives in orange juice by means of the pentosan content, 1736. Determination of natural phosphate content of orange juice, 3806.

Benmaman, J. D. See **Ludowieg, J. J.,** 1569.

Bennett, H., and **Hawley, W. G.** The accuracy of industrial ceramic analysis, *Book*: Sept.

Bennett, W. D., and **Tapper, B. A.** Detection of cyanoglycosides on paper and cellulose thin layers, 1573.

Bennett, W. J. See **Woollerton, G. R.,** 1993.

Benoualid, K. See **Audidier, Y.,** 505.

Benson, R. H. See **Maute, R. L.,** 2175.

Benson, W. R., and **Damico, J. N.** Mass spectra of some carbamates and related ureas. II, 557.

— See also **Palmer, N. J.,** 1751.

Bentejac, R. See **Brus, G.,** 3662.

Bentley, F. F. See **Netzel, D. A.,** 2210.

Benusova, M. See **Batora, V.,** 3118.

Ben-Yehoshua, S., and **Krinsky, P.** GLC of ethylene oxide and its toxic residues, 2411.

Benz, C., and **Paixao, L. M.** Chromatographic determination of polyphosphates using ion-exchange resin, 2067.

Benzina, G. I. Absorptiometric determination of formaldehyde in air, 1821.

Beran, P., and **Bruckenstein, S.** Voltammetry of iodine^{I} chloride, iodine and iodate at rotated platinum-disc and ring-disc electrodes, 2100.

— See also **Tvrzicka, E.,** 4022.

Berberian, A. See **Bradbury, M. W. C.,** 2860.

Berbeyer, R. M. See **Molina Berbeyer, R.**

Berck, B. Potentiometric determination of phosphine, 2447.

Berenshtein, E. I. See **Eliseeva, L. M.,** 2835.

Berezin, I. A., and **Razuvaev, V. A.** Dependence of the intensities of the spectrographic lines of sulphur and halogens on the method of introduction of the sample into a spark and on the material of the electrodes, 3308.

— and **Sten'gach, I. N.** Use of a hollow-cathode discharge in the spectrographic determination of deuterium in titanium, 805.

Berezkin, V. G. See **Trubnikov, V. I.,** 279, and **Zhukhovitskii, A. A.,** 3.

Berg, A. J. van den, Bruin, M. de, and **Houtman, J. P. W.** Sorption behaviour of trace elements in human hair, 1.

Berg, E. W., and **Reed, K. P.** Fractional sublimation of metal chelates of 2-thenoyltrifluoroacetone, 3309.

Berg, G. G. See **Miller, Morton W.,** *Book*: Nov.

Berg, W. von. TLC of urine for detection of hereditary diseases of amino-acid metabolism, 3695.

Berg, Yu. N., and **Markina, E. A.** Clarification of protein electropherograms on starch gel, 1887.

Berge, D. G., Pflaum, R. T., Lehman, D. A., and **Frank, C. W.** Indirect determination of cyanocobalamin in pharmaceutical dosage forms by atomic-absorption spectrophotometry, 2987.

Bergen, H. J. See **Charnetski, W. A.,** 3132.

Bergeret, J. See **Bouscharain, H.,** 1772.

Berges, J. See **Uriel, J.,** 1656.

Bergman, I. Metallised membrane-electrode for atmospheric oxygen monitoring, 1306.

Bergman, N. C. See **Jensen, R. E.,** 51.

Bergmeyer, H.-U. Methods of enzymatic analysis, *Book*: Sept.

Bergner, H., and **Schramm, S.** Indirect calorimetric determination of lignin in feeding-stuffs. I. Testing lignin - cellulose mixtures, and reproducibility of the method with rye straw and oats, 3845.

Bergrahm, B., and **Harlestam, R.** Polyacrylamide-gel electrophoresis with continuous elution in the Uniflor 7900 column-electrophoresis system, 3974.

Bergwerksverband G.m.b.H. Portable apparatus for determining the oxygen content of a gas, 3146.

Berka, A. Determination of organic materials by oxidation with permanganate. VIII. Oxidation of oxalic acid with permanganate, manganese^{IV} oxide and the pyrophosphate complex of manganese^{III}, 2173.

— and **Konopasek, J.** Determination of organic compounds by oxidation with permanganate. VII. Oxidation of oxalic acid, formic acid and formaldehyde, 253.

Berkovich, M. T., Smirnova, G. M., and **Lagunova, N. L.** Potentiometric determination of boron trioxide in the presence of ammonium chloride and calcium salts, 2012.

Berlet, H. H. TLC of 2,4-dinitrophenylhydrazones of oxo-acids of biological interest, 388. Enzymic determination of creatine in serum and cerebrospinal fluid, 1046. Isolation and gas-chromatographic analysis of volatile organic substances from biological material, 1313.

Berlier, Y. See **Guiraud, G.,** 3092.

Berlin, K. D. See **Arthur, P.,** 3240, and **Rulison, D. S.,** 1841.

Berlinguet, L. See **Lupien, P. J.,** 3738.

Berman, E., Valavanis, V., and **Dubin, A.** Microdetermination of lead in blood, 360.

Berman, M., and **Ergun, S.** Analysis of mineral matter in coal by X-ray fluorescence, 2141. Determination of sulphur in coal by X-ray fluorescence, 3482.

Berman, S. S. See **Mykytiuk, A.,** 2496.

Bermejo Martinez, F., and **Mendez Domenech, E.** Spectrophotometric and absorptiometric determination of nickel with 3-mercaptopropane-1,2-diol, 2752.

Bermudez Polonio, J. Electron micro-probe and X-ray macro-probe analysis of very small zones, 3190.

— See also **Toubes, R. O.,** 202.

Berndorfer-Kraszner, E. See **Telegdy-Kovats, L.,** 2961.

Berner, C. See **Vogel, J.,** 316.

Berneye, G. Glass trap for absorbing the fumes from perchloric acid digestions, 582.

Bernhardt, D. TLC of organic peroxides, 2788.
Berninger, H., **Ammon, R.**, and **Berninger, I.** Spectrophotometric identification of metabolic hydroxy-derivatives of biphenyl, 3639.
Berninger, I. See **Berninger, H.**, 3639.
Beroza, M. See **Bierl, B. A.**, 1873, **Bowman, M. C.**, 614, 1167, 2409, 3960, **Corley, C.**, 1168, and **Maitlen, J. C.**, 3855.
Berridge, B. J., jun. See **Peters, J. H.**, 2321.
Berry, H. K. Comparison of fluorimetric and chromatographic determinations of serum phenylalanine, 1608.
Berry, J. F., and **Kaye, B.** Chromatography of lipids on polystyrene gel columns, 3663.
Bersier, P. See **Buechler, W.**, 1106.
Bertani, L. M. See **Wilk, E. K.**, 1044.
Berthold, F. See **Simon, H.**, 1313.
Bertin, E. P. X-ray spectrometric analysis by solution techniques: review, 1310.
Bertine, K. K. See **Kharkar, D. P.**, 569.
Bertoglio Riolo, C., **Fulle Soldi, T.**, and **Spini, G.** Study of the reactions of some metal ions and mixtures of metal ions with cupferron by high-frequency titration, 1339.
Berzin, A. K., **Witozenc, H. C.**, **Sulin, W. W.**, and **Shornikov, S. I.** Gamma-activation determination of zirconium in zirconium ores and concentrates, 2061.
— See also **Belov, V. I.**, 2223.
Besazza, G. See **Biancifiori, M. A.**, 702.
Bessarabova, I. M., **Zakharov, V. A.**, and **Songina, O. A.** Amperometric determination of iron in silicates by titration with 8-mercaptoquinoline, 3384.
Bessette, R. R., and **Olver, J. W.** High-sensitivity coulometric analysis in acetonitrile, 1965.
Besson, J. See **Guitton, J.**, 2727.
Bettens, B. See **Delaunois, C.**, 2829.
Betteridge, D., and **Rangaswamy, R.** 2′-Aminotoluene-*p*-sulphonanilide as analytical reagent for copper^{II}, 3326.
Betti, A. See **Bighi, C.**, 892, 2461.
Bettison, W. A. Spectrographic analysis of high-purity alumina, 74.
Betto, P., and **Longinotti, L.** Determination of thiamine and its pyrophosphate, phosphate and triphosphate by ion-exchange separation and spectrophotometry, 2930.
Betts, T. J. GLC of anethole and fenchone in the developing fruits of *Foeniculum vulgare* Mill, 2979.
— See also **Adcock, J. W.**, 955.
Betusova, M. See **Klimes, I.**, 998.
Bevenue, A., **Ogata, J. N.**, and **Beckman, H. F.** Effect of the column support material on the GLC of parathion-methyl, parathion, *OO*-diethyl *O*-*p*-nitrophenyl phosphate, malathion and *S*-[1,2-di(ethoxycarbonyl)ethyl] dimethyl phosphorothioate, 1868.
Bevill, R. D. See **Russ, P. L.**, 1012.
Beyer, K.-H. See **Klinge, D.**, 2284.
Beyer, W. See **Likussar, W.**, 170, 2845, **Pokorny, G.**, 1416, and **Wawschinek, O.**, 2893.
Beyer, W. F. Automated colorimetric determination of ethinyloestradiol or mestranol in pharmaceutical tablets, 3779.
— and **Morozowich, W.** Semi-automated determination and characterisation of steroid 21-phosphates using ion-exchange chromatography, 2923.
— and **Zipple, K. G.** Comparison of iron assays in multivitamin products by an automated chemical procedure and an X-ray emission method, 1123.
Beyermann, K. Combined gas chromatography and i.r. micro-analysis of amines, 2469.
Beyers, C. P. de L., and **Coetzer, F. J.** Determinatio of zinc in soil extracts by means of a direct reading spectrometer, 1179.
Beynon, K. I., **Edwards, M. J.**, **Elgar, K.**, and **Wrigh A. N.** Analysis of crops and soil for residues c chlorfenvinphos and its breakdown product 2427.
Beyrich, T. See **Palitzsch, R.**, 2358.
Beyssier, B. See **Dugain, F.**, 2711.
Bezdek, M. See **Krtil, J.**, 102, 777, 778, 2041.
Bezinger, N. N., and **Gal'pern, G. D.** Acetic an hydride as medium for titrating derivative of 1,4,5,6-tetrahydrocyclopenta[*b*]pyrrole an 4,5,6,7-tetrahydroindole, 3557.
Bezrogova, E. V. See **Nemodruk, A. A.**, 2651.
Bezuglyi, V. D., and **Ponomarev, Yu. P.** Separat polarographic determination of acrylates an methacrylates, 3591.
Bhalerao, V. R. See **Pruthi, T. D.**, 1155.
Bhardwaj, D. K. See **Katyal, M.**, 2679.
Bhatnagar, C. S. See **Arora, S. K.**, 3542.
Bhatnagar, R. M., **Singh, B. N.**, and **Roy, Amalend K.** Polarographic determination of urea, 3844.
Bhattacharya, A. G., **Bose, A.**, and **Dutta, J.** Dete mination of copper in copper naphthenate, 322.
Bhattacharyya, B. N. See **Roy, A. K.**, 2716.
Bhattacharyya, D. See **Chakrabarty, M. M.**, 380
Bhatty, M. K. See **Ashraf, M.**, 2778.
Bhut, D. J. See **Devani, M. B.**, 2355.
Biala, N. See **Akerman, K.**, 3433.
Bianchini, A. See **Lanfranco, G.**, 753.
Biancifiori, M. A., **Bordonali, C.**, and **Besazza,** Atomic-absorption determination of traces silver, chromium and cobalt, 702.
Bibron, R. See **Mabuchi, H.**, 3284.
Bieber, B., and **Drexlerova, J.** Use of the direc reading spectrograph in analysis of meta VIII. Analysis of aluminium alloys, 2018.
Biechler, D. G. See **Hagen, D. F.**, 2805.
Bieganowska, M. See **Soczewinski, E.**, 3561.
Bielan, C. See **Cherin, P.**, 633.
Bieler, B. H., and **Madison, R. P.** Continuous soli particle shape classifier, 1939.
Bieleski, R. L. See **Reid, M. S.**, 628.
Biemann, K. See **Hayes, J. M.**, 203, **Hites, R.** 3227, and **Vetter-Diechtl, H.**, 1056.
Bierl, B. A., **Beroza, M.**, and **Ruth, J. M.** Collecti and transfer device for GLC fractions, 1873.
Biernoth, G. Determination of polycyclic aroma hydrocarbons in fats and oils, 1777. Quantitat determination of glycerides by TLC and densi metry, 3085. TLC determination of polycyc aromatic hydrocarbons, 3829.
Biettman, D. See **Mabuchi, H.**, 3284.
Biezenski, J. J. Chromatographic one-step extr tion and purification of lipids from micro volum of plasma, 3664.
Bigeleisen, J. See **Ishida, T.**, 584.
Bighi, C., **Betti, A.**, **Saglietto, G.**, and **Dondi,** Influence of electrolytes on GLC of hydrocarbo and alcohols, 892. Interpretation of data fr GLC, on Carbowax 400, of hydrocarbons a aromatic compounds, 2461.
Biino, L. See **Ciurlo, R.**, 1152.
Bijam, R. See **Lis, A. W.**, 1630.
Bilbiie, E. See **Grigorescu, E.**, 3747.
Bilidiene, E. B. See **Jasinskiene, E. I.**, 2084.
Bilimovich, G. N., **Alimarin, I. P.**, and **Tikhono T. V.** Determination of zinc in gallium arsen by isotopic dilution with sub-stoicheiomet separation, 3353.
Billman, D. C., jun., and **Clark, H.** Collaborat study of the microbiological assay of oxytet cycline in feeds, 1791.

llmeyer, F. W., jun., Johnson, G. W., and **Kelley, R. N.** Evaluating dispersion in gel-permeation chromatography. I. Theoretical analysis, 1882.
and **Kelley, R. N.** Evaluating dispersion in gel-permeation chromatography. II. Injection - detection system, 1882.
lls, D. D. See **Banks, K. A.**, 547, and **Reddy, M. C.**, 3038.
l'tyukova, E. P., Prokopets, V. F., and **Esechko, A. M.** Determination of silica by distillation of silicon tetrafluoride, 3381.
ndal, M. P. See **Jain, M. K.**, 1160.
nek, B. See **Ceskoslovenska Akademie Ved**, 3993.
ngley, J. B. Solvent and temperature effects in the determination of pyrrolizidine alkaloids with 4-dimethylaminobenzaldehyde, 2356.
nnerts, W. T. Photometric determination of cobalt in bovine liver: interference by copper when using nitroso-R salt, 1548.
- and **Boom, W. G.** Determination of cobalt in liver by atomic absorption, 1549.
iondi, L. See **Celon, E.**, 1607.
ird, E. D., Grant, L. G., and **Ellis, W. H.** Effect of phenothiazine on the activation analysis of manganese in animal tissue, 1.
iretti, M. See **Strocchi, A.**, 3517.
irke, R. L. See **West, C. D.**, 155.
irkenfeld, H., Haase, G., and **Zahn, H.** Massenspektrometrische Isotopenanalyse. Vol. V, *Book*: Oct.
irks, L. S. See **Criss, J. W.**, 2487, and **Gilfrich, J. V.**, 2486.
irney, D. G., Blake, W. E., Meldrum, P. R., and **Peach, M. E.** Adsorption of chloro-complexes of the first-row transition elements by Dowex A-1, 2559.
iserte, G., Bonte, M., Sautiere, P., Martinage, A., Moschetto, Y., and **Boulanger, P.** Use of recycling chromatography on Sephadex for the isolation of arginine-rich histones, 2944.
ishara, S. W. See **Gawargious, Y. A.**, 1444.
ishop, E. T. See **Willeboordse, F.**, 3603.
ishop, H. E. Absorption and atomic-number corrections in electron-probe X-ray microanalysis, 2489.
itner, E. D. See **Hoffmann, R. L.**, 3172, 3956.
itny-Szlachto, S. Quantitative paper chromatography of 2-amino-2-thiazoline, 1713.
itten, J. Determination of free water content of fuel for jet aircraft, 1489.
jorklund, A. See **Aures, D.**, 1313.
jorklund, J. G., and **Rand, M. C.** Determination of free residual chlorine in water by *NN*-diethyl-*p*-phenylenediamine, 1825.
lack, S. See **Rudd, B. T.**, 1042.
lackburn, W. H., Pelletier, Y. J. A., and **Dennen, W. H.** Spectrochemical determinations in garnets using a laser micro-probe, 2764.
lacker, P. A. See **Green, A. G.**, 1595.
ladh, E. Determination of copper and iron in edible oil by atomic-absorption spectrophotometry, 2535.
lagodatskaya, Z. G. See **Kreshkov, A. P.**, 2144, 2192, 2252, 3266.
lake, W. E. See **Birney, D. G.**, 2559.
lakemore, L. C. Determination of iron and aluminium in soil extracts obtained by the Tamm method, 542.
lanc, D. See **Marenco, A.**, 563.
landenet, G., Detheve, J.-L., and **Peron, J.-P.** Thermogravimetry and derivative thermogravimetry, 3254.
lankenhorn, D. H. See **Chin, H. P.**, 1582.
Blanquet, P., Croizet, J., Croizet, M., Bourbon, P., and **Broussy, G.** Determination of arsenic in the presence of arsenic-74. III. Modification to the Cribier technique, 992.
— See also **Croizet, M.**, 2931, and **Mathieu-Nast, C.**, 2886.
Blasi, J. A. See **Smith, S. B., jun.**, 3340.
Blaug, S. M. See **Wesolowski, J. W.**, 1684.
Blazek, J., and **Pinkasova, M.** Identification tests for phenothiazine derivatives, 1693.
Blazheevich, N. V., and **Spirichev, V. B.** Determination of phosphorus in the presence of thiamine and its derivatives, 1546.
Blesova, M. See **Zahradnicek, M.**, 8.
Bleumer, J. P. A. See **Sie, S. T.**, 792.
Bliznakov, G. See **Peshev, P.**, 822.
Blochowicz, A. See **Dutkiewicz, T.**, 1202.
Block, M. See **Amor, A. F.**, 3141.
Bloem, E. TLC of aldehydes, 1452. TLC of aldehydes in leather, 2260.
Blokhin, M. A., and **Il'in, N. P.** X-ray spectrographic analysis: progress report, 3.
Blomquist, V. H. See **Fernandez-Flores, E.**, 3048, and **Taylor, J. R.**, 1748.
Bloomer, J. L., and **Eder, W. R.** Detection of substances on thin-layer chromatograms by the 'hot-line' technique, 1860. Fraction collector for gas chromatography, 3963.
Bloomfield, C. See **Pruden, G.**, 3839.
Blouri, J. See **Albert, P.**, 2702.
Bloxam, T. W. Determination of fluoride in silicate rocks, 1391.
Blumenthal, W. B. Properties of zirconium compounds of analytical interest, 3395.
Blumer, M. Integrated gas chromatograph - mass spectrometer system with carrier-gas separator, 3965.
Blunden, G., and **Hardman, R.** Determination of monohydroxy saturated steroidal sapogenins in plant material by densitometric TLC, 1671.
Blyum, I. A. See **Shumova, T. I.**, 2051.
Bober, H. Gas-chromatographic techniques used in biochemistry: review, 1313.
— and **Buerner, K.** Optimal conditions for the combination of a gas chromatograph with a fast-scan spectrophotometer, 1877.
Boboli, K., and **Otrebski, J.** Apparatus with two rotating discs for photographic registering of spectra separated in time, 1271.
Bochkareva, T. P. See **Beider, T. B.**, 1474, 2838.
Bock, R. X-ray spectral analysis: review, 1313.
— and **Langrock, P.** Investigation of completeness of precipitation of germanium sulphide, 3385.
— and **Monerjan, A.** GLC separation and determination of univalent thallium as the cyclopentadienyl compound, 84.
— and **Schuetz, K.** GLC determination of traces of nitrous oxide in air, 2433.
— and **Strecker, S.** Direct electrometric determination of fluoride ion, 158.
Bock-Werthmann, W. Sodium-separation method for activation analysis of biological material, 1.
Boddy, K., and **Alexander, W. D.** Problems of *in vivo* activation analysis for iodine in the thyroid gland, 1.
Bode, U. See **Doss, M.**, 2949.
Bodenseewerk Perkin-Elmer and Co., G.m.b.H. Design of a flame ionisation detector, 1875.
Bodman, R. See **McClements, B.**, 2876.
Bodnya, V. M. See **Karpukhin, P. P.**, 906.
Boeck, R. de, Adams, F., and **Hoste, J.** Determination of polonium-210 in lead, 2057.
Boeckeler, R. H. See **Haworth, D. T.**, 60.
Boef, G. den. See **Groeneveld, E. R.**, 687, 1785.

Boehler, Gebr., & Co., Akt.-Ges. Analysis of surfaces of structurally heterogeneous substances by an electron beam, 3979.
Boehmer, R. G. See **Basson, W. D.,** 363.
Boer, H. See **Shell Internationale Research Maatschappij N.V.,** 1869.
Bogachev, G. N. See **Masalovich, N. S.,** 1980.
Bogacka, T. See **Taylor, R.,** 1206, 3128.
Bogaczek, J. See **Jaworski, M.,** 2245.
Bogatova, Z. S. See **Negina, V. R.,** 3393.
Bogdanov, G. V. See **Orekhov, V. T.,** 1461.
Bogdanova, V. I., and **Dedkov, Yu. M.** Spectrophotometric determination of copper with 1990.
Bogen, D. C. Determination of strontium-90 in urine, 354.
Bogoslovskii, N. A., Mairanovskii, V. G., and **Kuznetsova, E. N.** Polarographic determination of ergocalciferol in ergosterol irradiation products, 2366.
Bogoyavlenskaya, A. N., Gerken, E. B., and **Polyakova, V. V.** Spectrographic analysis of high-purity selenium, 830.
Bogoyavlenskii, A. N. See **Isaeva, A. B.,** 1210.
Bohn, G., and **Ruecker, G.** Use of NMR and mass spectrometry in pharmacy. IV. TLC - mass spectrometry for detection of glutethimide in organic material, 370.
Boikova, S. I. See **Nikolaeva, E. R.,** 3428.
Bokowski, D. L. Determination of beryllium by direct-reading atomic-absorption spectrophotometry, 1814.
Bolan, M., and **Steele, J. W.** Phytochemistry of *Salix* species. I. GLC separation and identification of phenolic glycosides, 3650.
Bolbas, V. I. See **Vasilenko, V. D.,** 780.
Bolef, D. I. See **Mishory, J.,** 1311.
Bolewski, K., and **Tomszkiewicz, T.** Oscillometric determination of poly(methacrylic acid) and its copolymers in alcoholic solution, 2840.
Bollag, J.-M. See **Helling, C. S.,** 3533.
Bolliger, W. See **Tavel, P. von,** 589.
Bol’shakova, L. I. See **Myasoedova, G. V.,** 3276.
Bol’shova, T. A. See **Ershova, N. I.,** 2097.
Boltezar, E., Petrinovic, M., and **Sedlacek, M.** Design of a permanent magnet for NMR, 649.
Boltz, D. F., and **Mellon, M. G.** [Analytical reviews, 1968]—Light-absorption spectrometry, 677.
— See also **Jakubiec, R. J.,** 134, **Kalt, M. B.,** 1969, and **Parker, G. A.,** 3430.
Bolze, C. C. See **Rosebrook, D. D.,** 1743, 1744.
Bomhoff, G. H. Magnesium oxide as adsorbent in TLC, 1853.
Bonadeo, I., and **Bottazzi, G.** Determination of allantoin in the presence of glycerol, 463.
Bonchev, P. R., and **Aleksiev, A. A.** Catalytic determination of ultra-micro amounts of silver in high-purity zinc and cadmium, 2610.
Bond, A. M., and **O’Donnell, T. A.** Determination of fluoride by atomic-absorption spectrophotometry, 156. Polarographic micro-determination of fluoride, 3432.
Bond, P. S. Two-dimensional TLC for the separation of mixtures of 5-bromouracil and DNA bases, 1642.
Bondarevskaya, E. A. See **Terent’ev, A. P.,** 3494.
Bondivenne, R., and **Busch, N.** Determination and study of retention indices of 4-alkyl-2-phenylmorpholines. [I], 935.
Bonelli, E. J. See **McNair, H. M.,** 601.
Bonello, B. B. See **Borg Bonello, B.**
Bonino, R. C. d’A. de C. See **Carnevale Bonino, R. C. d’A. de.**
Bonom G. See **Ligotti, I.,** 2257.
Bonsall, R. W., and **Hunt, S.** Automated techniq for preventing the pumping-dry of chromat graphic columns, 3923.
— See also **Ayad, S. R.,** 587.
Bonte, M. See **Biserte, G.,** 2944.
Bontemps, R., Parmentier, J., and **Diesse,** Spectrophotometric determination of phenazo by the Deysson method, 1131.
Boom, W. G. See **Binnerts, W. T.,** 1549.
Booman, G. L. See **Brown, E. R.,** 4021.
Borak, J. See **Slovak, Z.,** 227, 3338.
Borba de Oliveira, D. Device for the injection pressurised liquid petroleum gas samples into gas chromatograph, 1244.
Borcke, I.-M. von. See **Busch, E.-W.,** 2953.
Bordea, A. Absorptiometric or fluorimetric det mination of indium, 1369.
Bordignon, E. See **Celon, E.,** 1607.
Bordonali, C. See **Biancifiori, M. A.,** 702.
Bore, P., Habault, S., and **Tourenq, L.** Determin tion of ethylene oxide and propylene oxide un in non-ionic compounds, 1495.
Borfitz, H. Collection of high-boiling gas-chroma graphic fractions, 1872.
Borg, K. M. See **Robbins, R. C.,** 561.
Borg Bonello, B. See **Wood, E. J.,** 1837.
Borges, J. M. D. See **Diaz Borges, J. M.**
Borght, O. van der. See **Puymbroeck, S. van,** 1.
Bories, G. F. Separation of some phenylalkan acids by TLC of their anilides, 3655.
Bork, V. A., and **Selivokhin, P. I.** Polarograp determination of organotin compounds, 915.
Borker, E. See **Levi, C. P.,** 1755.
Borodina, V. G. See **Volodina, M. A.,** 3490.
Borovaya, N. S. See **Tserkovnitskaya, I. A.,** 3396
Borris, D. P., and **Aronson, J. N.** Dried acrylam electrophoresis gels for storage or radioactiv determination, 627.
Borriss, H., and **Koehler, K.-H.** Determination over-all chlorophyll content of leaves with Spekol spectrometer, 3716.
Borshchenko, V. P. See **Beksheneva, N. M.,** 3592
Bortoletti, B., and **Perlotto, T.** Separation, iden fication and determination of nitrofuran deri tives by TLC, 3773.
Bortz, J. See **Jensen, R. E.,** 2890.
Borzenkova, N. P. Spectrophotometric investi tion of conditions for extraction of titaniu niobium and molybdenum as complexes w salicylohydroxamic acid, 1971.
Bosch, F. See **Garcia-Villanova, R.,** 898, 2726.
Bosch, J. J. ten. Measure of the sensitivity ESR spectrometers, 1907.
Bose, A. See **Bhattacharya, A. G.,** 322.
Bose, S., Gupta, K. C., and **Mukherjee, S.** De mination of starch in sugar and sugar-ho products by the formamide method, 3014.
Bosin, W. A., and **Marmor, R. A.** Determination the solids content of fats and oils by NMR, 17
Bossenmaier, I., and **Cardinal, R.** Stability 5-aminolaevulic acid and porphobilinogen urine under varying conditions, 2950.
Botar, A. See **Marcu, G.,** 786.
Bothe, H.-K. See **Adler, P.,** 564.
Bottazzi, G. See **Bonadeo, I.,** 463.
Bottei, R. S., and **Trusk, A.** Fluorimetric de mination of tungsten in almost pure tungs thoriated tungsten and cobalt - nickel - chrom refractory alloys, 1409.
Bottom, A. E. See **Beck, W. H.,** 656.
Bouchard, A. See **Heumann, W. R.,** 3312.
Boucher, E. A. See **Horning, M. G.,** 3658.

uda, J. Determination of iron in serum transferrin with 4,7-diphenyl-1,10-phenanthroline without deproteinisation, 2880.

udjouk, M. G. See **Chafetz, L.**, 2388.

ufford, C. E. Determination of isomeric toluenediamines by direct GLC, 3540.

ulanger, P. See **Biserte, G.**, 2944.

ulet, R., Guichard-Loudet, N., Henrion, P., Poulet, M., Raynal, M., Roucache, J., Cornu, A., and **Ulrich, J.** Analysis of crude oil by GLC, mass spectrometry and NMR: application to geochemical problems, 936.

ulin, R. See **Leblond, A. M.**, 864.

urbon, P. See **Blanquet, P.**, 992.

urdieu, J. M. See **Leblond, A. M.**, 3448.

urret, P., and **Lecuire, J.-M.** Determination of chromium oxides in mixtures and compounds thereof, 835.

uscharain, H., Bergeret, J., and **Boivin, R.** Identification of some aniseed-based aperitifs, 1772.

utros, C. H. See **Kabiel, A. M.**, 1288.

wditch, D. C., and **Holden, G. R.** Application of computer methods to the calculation of analytical results, 1318.

wen, H. J. M. Activation analysis in botany and agriculture, 1. Use of sodium and potassium nitrates for decomposing organic samples for elementary analysis, 1434. Chemical applications of radioisotopes, *Book*: Oct.

wes, J. H., Davies, C. F., and **Milward, F. W.** Automated analysis in the leather industry. I. Determination of dialysable nitrogen, total nitrogen and hydroxyproline, 346; II. Determination of chromium, 346.

wie, J. H., Lewis, G. E., and **Reiss, J. A.** Benzo[*c*]cinnoline derivatives. IV. Substituent effects in the mass spectra of substituted benzo[*c*]cinnolines, 1483.

wie, W. C. See **Thaxton, V. L.**, 3687.

wman, G. E. See **National Research Development Corporation**, 3903.

wman, J. A. Determination of tin in tin ores and concentrates by atomic-absorption spectrophotometry in the nitrous oxide - acetylene flame, 3387.

wman, J. T., and **Bard, A. J.** Potential step - current step techniques, 3245.

wman, M. C., and **Beroza, M.** Apparatus combining gas chromatography with spectrophotofluorimetry by means of a flowing-liquid interface, 614. GLC determination of iodofenphos, its oxygen analogue, and 2,5-dichloro-4-iodophenol in sweet corn and milk, 1167. Determination of fenthion and five of its metabolites in corn, grass and milk, 2409. Gas-chromatographic detector for simultaneous sensing of phosphorus- and sulphur-containing compounds by flame photometry, 3960.

yadzhov, I., Neve, R. de, and **Hoste, J.** Determination of rhenium in molybdenite by neutron-activation analysis, 151.

yarkina, V. V. See **Korenman, I. M.**, 2209.

yarskaya, R. K. See **Vasil'eva, T. M.**, 321.

yde, W. A. See **Feller, B.**, 3111.

zhevol'nov, E. A. Fluorescence analysis: progress report, 3.

See also **Temkina, V. Ya.**, 833.

zhko, I. G. See **Kiseleva, R. A.**, 280.

zic, J. See **Holland, W. J.**, 3462, 3473.

P. Chemicals (U.K.) Ltd. Improved thermal-conductivity detector for gas chromatography, 1253.

acco, D. J. See **Cosgrove, J. F.**, 1373.

Bradbury, M. W. C., Kleeman, C. R., Bagdoyan, H., and **Berberian, A.** Determination of calcium and magnesium contents of skeletal muscle, brain, and cerebrospinal fluid by atomic-absorption flame photometry, 2860.

Bradley, K. H. See **Schneider, J. A.**, 1059.

Bradley, R. L., jun., and **Stine, C. M.** GLC of the volatile flavours in natural and spray-dried Cheddar cheese, 2401.

Bradlow, H. L. Extraction of steroid conjugates from urine with a neutral resin, 1032.

Brafman, M. See **Akerman, K.**, 3433.

Bragina, M. I., and **Zamyslov, R. D.** Determination of small amounts of copper in products of titanium dioxide production by oscillopolarography, 1396.

Braidwood, J. L. Determination of 5-iodo-2-deoxyuridine in cerebrospinal fluid and blood serum, 1633.

Brainina, Kh. Z., and **Sapozhnikova, E. Ya.** Concentration of substances before polarographic analysis. XIII. Determination of nickel in aluminium nitrate, 2017.

Brame, E. G., jun. Applied spectroscopy reviews. Vol. II, *Book*: Nov.

Bramhall, P. S. Effect of sulphide inclusions on the determination of sulphur in steel by emission spectroscopy, 2742.

Branca, F. P. Factors affecting the sensitivity of a piezo-electric thermometer, 3257.

Brand, K., and **Horecker, B. L.** Determination of enzyme - substrate complex of transaldolase, 1313.

Brand, M. J. D., and **Fleet, B.** Polarographic study of classical organic functional group reactions. I. Polarographic behaviour of *cis-* and *trans-*cinnamic acids and substituted cinnamic acids, 281. Application of cathodic-stripping voltammetry in organic analysis, 664. Application of polarography and related electroanalytical techniques to the determination of sodium diethyldithiocarbamate, 3526.

Brandenberger, H., and **Bader, H.** Determination of mercury by flameless atomic absorption. II. Static vapour method, 2617.

Brandenburg, G., and **Rohleder, K.** Direct GLC determination of diethyl carbonate in wine, 1171.

Brandt, A. E., and **Lands, W. E. M.** Quantitative GLC by using retention times, 618.

Brandt, P. E., Krog, N., Lauridsen, J. B., and **Tolboe, O.** Mass spectrometry of glycerol lactate esters, 1455.

Branica, M. See **Sipos, L.**, 101.

Brannon, W. L. See **Hayden, A. L.**, 1862.

Braun, D., and **Heimes, H.-T.** TLC of organotin compounds, 3528.

Braun, J., Caille, G., and **Martin, E. A.** Study of the fluorescence of some derivatives of 1,4-benzodiazepine used pharmaceutically, 3761.

— See also **Plourde, J. R.**, 3762.

Braun, W., and **Kortuem, G.** Quantitative evaluation of paper chromatograms by reflection measurements, 3933.

Brauser, B. Apparatus for high-sensitivity difference spectrophotometry, 1898.

Braverman, L. E., Reinstein, H., Loayza, H., and **Pomfret, D.** Effect of formaldehyde-forming drugs on determination of urinary 17-hydroxycorticosteroids, 1594.

Breckenridge, W. C. See **Kuksis, A.**, 3668.

Breeze, A. E. See **Greenfield, S.**, 1895.

Bresadola, S. See **Celon, E.**, 1436.

Breshchenko, V. Ya. See **Volkov, E. F.**, 3170.

Breuer, H. See **Knuppen, R.**, 1313.

Brewington, C. R. See **Bassette, R.,** 2158, and **Schwartz, D. P.,** 255, 267, 2158.

Breynat, G., Fourcy, A., and **Garrec, J. P.** Determination of magnesium and aluminium in plants by activation analysis, 1.

Brhacek, L., Delong, A., and **Golonka, A.** Continuous determination of moisture in sinter mixes and other bulk materials, 3313.

Brickey, P. M., jun., Gecan, J. S., Thrasher, J. J., and **Eisenberg, W. V.** Notes on micro-analytical techniques in the analysis of foods for extraneous material, 3010.

— See also **Gecan, J. S.,** 1738, **Roaf, A.,** 1746, **Stein, R.,** 1717, and **Thrasher, J. J.,** 1745.

Bricout, J. See **Thier, H.-P.,** 3065.

Briggs, J. See **Searle, B. G.,** 2936.

Bright, R. N., and **Matula, R. A.** Separation of low-molecular-weight fluorocarbons by GSC, 2787.

Brignac, P. J., jun. See **Guilbault, G. G.,** 2291.

Brill, U. See **Wilk, M.,** 1110, 1313.

Brink, J. A. See **Zeeman, P. B.,** 1974.

Brinkman, E. G. See **Geurts, J. J.,** 1183.

Brion, C. E., and **Stewart, W. B.** Mass-spectrometric analysis of oxygen, 141.

British Cast Iron Research Association. Determination of the moisture content of granular materials, 2571.

British Standards Institution. Analysis of sodium hypochlorite solution, 46. Methods of test for sodium triphosphate and sodium pyrophosphate. Part 1. Determination of matter insoluble in water in sodium triphosphate, 47; Part 2. Measurement of pH value of sodium triphosphate, 47; Part 3. Determination of iron content, 47; Part 4. Determination of loss on ignition, 47. Analysis of magnesium and magnesium alloys. Part 7. Photometric determination of nickel in magnesium alloys, 57. Sampling and analysis of zinc and zinc alloys. Part 9. Photometric determination of copper in ingot zinc and zinc alloy A, 61. Analysis of anhydrous ammonia, 122. Determination of tin in cold-reduced tinplate and cold-reduced blackplate, 178. Determination of inorganic acidity of petroleum products by colour indicator titration, 298. Determination of water content of petroleum products, 299. Determination of Conradson carbon residues of petroleum products, 300. Determination of sulphur content of petroleum products, 301. Determination of thiolsulphur content of light hydrocarbon products, 305. Determination of sediment in crude and fuel oils by extraction, 306. Lubrication symbols, 309. Liquid toilet soap, 312. Liquid soap, 313. Quantitative chemical analysis of fibre mixtures, 323. Determination of conductivity, pH, water-soluble matter, chloride and sulphate in aqueous extracts of textile materials, 324. White-lead-based undercoating and finishing paints for protective purposes, 336. Linseed oil, 337. Linseed oil putty for use in wooden frames, 339. Methods of testing rubber latex. Part 1. Sampling and basic tests, 341. Methods of test for meat and meat products. Part 1. Determination of ash, 508; Part 2. Determination of nitrogen content, 508. Sampling of fresh fruits and vegetables, 517. Vacuum-process salt for butter- and cheese-making and other food uses, 519. Filter-flasks, 581. Mechanical safety requirements for laboratory centrifuges, 591. Methanol, 894. Determination of sulphur in petroleum products, 942. Determination of ash from petroleum products, 943. Determination of Ramsbottom carbon residue of less-volatile petroleum products, 944. Neutralisation number of petroleum products and lubricants: colour indicator titration method, 945. Determination of neutralisation number of petroleum products and lubricants by potentiometric titration, 946 Determination of corrosive substances in grease 947. Analysis of fuel gases. Part 4. GLC analysis, 949. Gerber determination of fat in milk and milk products, 1154. Determination o smoke point of kerosine, 1490. Methods o testing raw rubber and unvulcanised compounde rubber, 1522. Glossary of terms relating to ga chromatography, 1864. Sampling and testing o mineral aggregates, sands and fillers, 3481 Recommended common names for pesticides 3850. Methods of testing water used in industry Part 8. Cyclohexylamine, morpholine and long chain fatty amines, 3884. Sampling and analysi of flue gases. Part 2. Analysis by the Orsa apparatus, 3901. Recommended common name for pesticides, *Book*: Nov.

Brittan, K. W. See **Pye Ltd.,** 1254.

Broderick, E. J., Sherman, R. M., and **Mack, G. L** Determination of carbaryl in formulations, 558

Broich, J. R., Mayo, M. M. de, and **Dal Cortivo, L. A** Column-chromatographic separation and determination of opiates and diluents in illicit narcoti mixtures, 458.

Brombacher, P. J., Gijzen, A. H. J., and **Verheesen P. E.** Determination of total oestrogens i pregnancy urine, 1589.

— See also **Altmann, A. E.,** 1551.

Brookes, A., and **Townshend, A.** Amperometri titration of copper and cadmium in the presenc of zinc, cobalt and nickel with sodium diethy dithiocarbamate, 2588.

Brookman, D. J., and **Sawyer, D. T.** Correlation c aromatic-substituent effects by GSC, 2186.

Brooks, M. H., Knowlton, M., and **Barry, K. C** Spectrophotometric determination of quina barbitone in a lipid system, 3624.

Brooks, R. R., and **Whitehead, N. E.** Fluorimetri attachment to an atomic-absorption spectrophotometer for determination of uranium, 399

Brouchek, F. I. See **Eristavi, D. I.,** 2090, 3329.

Broughton, P. M. G., and **Gowenlock, A. H.** Use the daily mean in quality control, 1312.

— See also **Gowenlock, A. H.,** 1312.

Broussy, G. See **Blanquet, P.,** 992.

Brown, A. P. See **Rubin, M. B.,** 1031.

Brown, E. R., Hung, H. L., McCord, T. G., Smit D. E., and **Booman, G. L.** Study of operation amplifier potentiostats employing positive feedback for *iR* compensation. II. Application a.c. polarography, 4021.

— **Smith, D. E.,** and **Booman, G. L.** Study operational amplifier potentiostats employi positive feedback for *iR* compensation. Theoretical analysis of stability and ban pass characteristics, 4021.

Brown, H. D., Patel, A. B., and **Chattopadhya S. K.** Lattice entrapment of glycolytic enzym 1560.

Brown, I., Chapman, I. L., and **Nicholson, G.** GLC of polar solutes in electron-acceptor statio ary phases, 2460.

Brown, J. D. See **Campbell, W. J.,** 677.

Brown, J. M., Chapman, A. C., and **Rendell, D. A.** Commercial u.v. stabilisers as optical-fil solutions in Raman spectroscopy, 2501.

Brown, P. E., and **Davis, I. J.** Radionuclide analy by gamma-ray spectrometry and computer, 67

Brown, R. H. See **Hill, H. M.,** 677.

own, W. H. See **Whiting, F. M.**, 3851.

own Boveri/Krupp Reaktorbau G.m.b.H. Device for taking gas samples from a gas-cooled nuclear reactor, 3902.

rownell, G. L. See **Cooper, R. D.**, 1.

rownlee, J. L., jun. See **Cram, S. P.**, 2188, 2527.

ruce, R. B., Pitts, J. E., and **Pinchbeck, F. M.** Determination of brompheniramine in blood and urine by GLC, 2285.

ruckenstein, S. See **Beran, P.**, 2100.

rueckner, J. See **Franzke, C.**, 1175.

ruhn, T. See **Lehmann, G.**, 1313.

ruin, M. de. See **Berg, A. J. van den**, 1.

runelle, R. L. Collaborative determination of fusel oil and ethyl acetate in spirits by GLC, 3077.
- See also **Hoffman, C. M.**, 1774.

runelli, B. See **Lato, M.**, 245, 3641.

runfeldt, R. J. See **Stafford, C.**, 1910.

runfelt, A. O., and **Steinnes, E.** Determination of phosphorus in rocks by neutron activation, 811. Determination of antimony in rocks by neutron-activation analysis, 1401.

runton, D. C. Moisture and basis weight of paper measured by i.r. radiation, 958.

rus, G., Bentejac, R., and **Prevot, F.** GLC of resinous products, 3662.

ryan, D. E., Guinn, V. P., and **Settle, D. M.** Activation analysis of biological samples of forensic interest, 1.

ryan, F. R. See **Cohen, Sabatino**, 2738.

ryan, G. T., and **Gorske, A. L.** Ion-exchange chromatography in the spectrophotometric assay for 2,4,6-tris(dimethylamino)-1,3,5-triazine in biological fluids, 1007.
— and **Takahashi, H.** Ion-exchange chromatography in spectrophotometric assay for 2-dimethylamino-3′,4′-dihydroxyacetophenone hydrochloride in biological fluids, 3629.

Bryant, R., Mantle, D. E., Timma, D. L., and **Yoder, D. S.** Automated assay of single tablets of isoxsuprine hydrochloride, 1137.

Bublitz, G. See **Zappi, E.**, 2330.

Buchanan, E. B., jun., and **Seago, J. L.** Study of impregnated silicone-rubber membranes for potential-indicating ion-selective electrodes, 657.

Buchanan, R. A. See **Wickersheim, K. A.**, 776.

Buckle, A. L. J. See **Vickers Ltd.**, 1232.

Buckner, D. See **Judson, G.**, 590.

Budavari, S. See **Urbanyi, T.**, 3785.

Budvari, Z., Khin, L., Szasz, G., Takacsi Nagy, G., and **Vegh, A.** Identification and purity testing of 11β,17-dihydroxy-21-(4-methyl-1-piperazinyl)-pregna-1,4-diene-3,20-dione hydrochloride and its preparations by TLC, 2389.

Buechler, W., Gisske, P., and **Meier, J.** Application of coulometric titration in industrial analysis, 3267.
— **Meier, J.,** and **Bersier, P.** Determination of small amounts of water in freeze-dried ampoules containing readily hydrolysed pharmaceutical preparations, 1106.

Buell, B. E. See **Snyder, L. R.**, 2216, 2217.

Buerner, K. Total attenuated reflectance i.r. spectrophotometric investigations of aqueous solutions, 1313.
— See also **Bober, H.**, 1877.

Bugaenko, I. F. See **Tuet, L. B.**, 1721.

Bugarel, R. See **Gagnaire, D.**, *Book*: Sept.

Bugenis, C. K. See **Preuss, L. E.**, 1310.

Buhl, F. See **Gregorowicz, Z.**, 2211, 3264.

Buhlert, J. E. See **Knight, D. M.**, 56.

Buijs, K., Chavane de Dalmassy, B., and **Maurice, M. J.** Determination of free acidity in plutonium-containing solutions and the semi-quantitative acidimetric estimation of plutonium, 2043.

Buisman, J. A. K., Hanewald, K. H., Mulder, F. J., Roborgh, J. R., and **Keuning, K. J.** Analysis of fat-soluble vitamins. X. Evaluation of the effect of isomerisation on the chemical and biological assay of vitamin D, 3752.

Buist, N. R. M. Urine tests for detection of inborn errors of metabolism, 2264.

Buketov, E. A. See **Gromakova, Z. I.**, 734.

Bukin, A. L. Paper chromatography of Sevin and naphthol preparations, 2429.

Bukowska, A. Sodium molybdate as a reagent in volumetric analysis. III. Titrimetric determination of silver ions, 738.

Bukreev, Yu. F. Flame-photometric determination of alkali and alkaline-earth metals in the presence of vanadium, 1331.
— See also **Zolotavin, V. L.**, 2695.

Bulatov, M. I. Spectrophotometric study of the reaction of zinc ions with xylenol orange, 2609.

Bulenkov, T. I. Eluting properties of solvents for TLC, 3155. Stabilisation of sorption activity of aluminium oxide for TLC, 3937.

Bull, A. T. Liquid-scintillation counting for radioassay of melanin labelled with carbon-14, 2952.

Bulygin, B. M., Shvetsova, L. N., and **Emelin, E. A.** Determination of acrylic or methacrylic monomers with mercury^{II} acetate in aqueous medium, 2243.

Buncak, P. Analytical control methods in the production of fuel oils, 2220.

Bunnell, R. H., Keating, J. P., and **Quaresimo, A. J.** Determination of the α-tocopherol content of feeding-stuffs, 3846.

Buravlev, Yu. M. See **Buyanov, N. V.**, 862.

Burek, R., Mirkowski, C., and **Pawlak, J.** Radiometric determination of the mineral matter in coal, 2767.

Burger, F. J. See **Toren, E. C., jun.**, 1350.

Burger, J. D. Gas-chromatographic behaviour of various organic compounds on Porapak Q, 206.

Burghardt, H. Polarographic determination of local anaesthetics. I. Basic esters of 4-aminobenzoic acid, 3765.

Burke, J. A. See **Thomas, E. J.**, 1800.

Burke, K. E. See **Davis, C. M.**, 1310.

Burke, W. E., and **Wood, D. L.** Rare-earth-metal analyses by X-ray-excited optical fluorescence, 1310.

Burkhard, D. G. See **Wacker, P. F.**, *Book*: Nov.

Burkholder, H. R. See **James, D. B.**, 2023, and **Powell, J. E.**, 3363.

Burmistrova, A. A. See **Kozlova, M. N.**, 2712.

Burnet, G., jun. See **Hankinson, R. W.**, 1448.

Burnett, G. H., and **Conklin, R. L.** Enzymic assay of plasma digitoxin levels, 2884.

Burnett, H. M., Pena, J. V., Martell, C. J., and **Phelps, R. T.** Separation and spectrochemical determination of 0·5 to 5 p.p.m. of niobium, tantalum and titanium in uranium, 1382.

Burns, D. T., Deadman, P., and **Clark, J. A.** Titrimetric determination of molybdenum in analytical-grade ammonium molybdate, molybdic acid and molybdenum trioxide with sodium hydroxide, 840.
— **Lloyd, G. H.,** and **Watson-Walker, J.** Colorimetric determination of neomycin, 1676.

Burr, A. F. Application of the X-ray wavelength scale in the long-wavelength region, 1310.

Burrell, D. C. Atomic-absorption spectrophotometry in marine research: review, 3877.

Burriel-Marti, F., Condal-Bosch, L., and **Gassiot-Matas, M.** Determination of water by gas chromatography. II. In ethanol and 2-methoxy- and 2-ethoxy-ethanol, 240.

Burroughs, J. E., Kator, W. G., and **Attia, A. I.** Micro-determination of silicon in organosilicon compounds by a modified oxygen - flask method, 223.

Burrows, B., and **Jasinski, R.** Use of lithium - lithium ion reference-electrode in propylene carbonate, 1922.

Burtis, C. A., and **Goldstein, G.** Terminal nucleoside assay of RNA by ligand-exchange chromatography, 2339.

— and **Warren, K. S.** Identification of urinary constituents isolated by anion-exchange chromatography, 1527.

Burton, J. D. See **Bannard, L. G.,** 131.

Buscarons, F. See **Paraira, M.,** 2573.

Buscas, M. M. See **Montagut Buscas, M.**

Busch, E.-W., Borcke, I.-M. von, Greve, H., and **Thorn, W.** Determination of RNA and DNA content of mammalian organs, 2953.

Busch, H. Determination of the specific surface of ground blast-furnace slag, 4042.

Busch, N. See **Bondivenne, R.,** 935.

Busev, A. I. Analytical chemistry of rare elements: review, 690.

— **Akimov, V. K.,** and **Emel'yanova, I. A.** Use of phenazone perchlorate for standardisation of non-aqueous solutions of bases or acids, 3263.

— **Gresl', V. G.,** and **Ivanov, V. M.** Extraction - spectrophotometric determination of rhodium^{III} with 1-(2-pyridylazo)-2-naphthol in the presence of the platinum metals, gold and silver, 873.

— **Ivanov, V. M.,** and **Gresl', V. G.** Spectrophotometric study of the reaction between rhodium^{III} and 4-(2-pyridylazo)resorcinol, 2754.

— and **Karyakina, Z.** 3,4-Dinitrocatechol as photometric reagent for vanadium, 133.

— and **Shishkov, A. N.** Dialkyl and diaryl phosphorodithioates as analytical reagents. XI. Extraction - photometric determination of copper with *OO*-diphenyl phosphorodithioate, 1991.

— and **Simonova, L. N.** Bismuthiols as analytical reagents. I. Extraction - photometric determination of tellurium^{IV} with 5-mercapto-3-(2-naphthyl)-1,3,4-thiadiazole-2-thione, 832.

— **Simonova, L. N.,** and **Gaponyuk, E. I.** Bismuthiols as analytical reagents. II. Interaction of such reagents with bismuth ions and determination of bismuth, 2069.

— **Simonova, L. N.,** and **Zayukova, N. D.** Extraction - photometric determination of tellurium in semiconductors with bismuthiol derivatives, 146.

— **Sukhorukova, N. V., Terzeman, L. N.,** and **Babenko, N. L.** Complexometric determination of gallium and aluminium present together, 75.

— See also **Kirspuu, Kh. K.,** 2554.

Bush, I. E. Automated analysis for urinary steroids by quantitative paper chromatography and digital computer, 2921.

— See also **Roberts, J. B.,** 2308.

Bush, S. F. See **Durig, J. R.,** 2511.

Bushnell, A. C. Food and drugs legislation and proposals for regulations (during 1967), 498.

Butler, F. E. Bio-assay for determining plutonium, neptunium and uranium in urine, 3612.

Butler, L. I., and **McDonough, L. M.** Determination of residues of carbamate insecticides by GLC, 2410.

Butler, L. R. P. See **Fulton, A.,** 3337.

Butuceanu, E. See **Albert, F. M.,** 3538.

Butucelea, A. Cell for u.v. spectrophotometry at low temperatures, 4004.

Buur, H. J. See **James, D. W.,** 1893.

Buyanov, N. V., Buravlev, Yu. M., Korotkov, V. F. and **Titovets, A. V.** Effect of the thickness o sheet samples on spectrographic analysis o steel with a vacuum quantometer, 862.

Buytendijk, H. J. See **Altmann, A. E.,** 1551.

Buzas, I., and **Farago, F.** Determination o chloride and potassium in blood serum with Variamine blue B as redox indicator, 996.

Buzlanova, M. M., and **Skvortsov, N. P.** Direc potentiometric determination of copper^{I} and iron^{II} with use of cerium^{IV} salts, 2587.

— See also **Frolova, Z. S.,** 875.

Bychkova, T. V. See **Shanina, T. M.,** 2781.

Bykhovskaya, I. A. See **Shatalova, A. A.,** 36.

Bykov, V. T. See **Vas'kovskii, V. E.,** 1450.

Bykova, L. N., and **Ardashnikova, V. D.** Analysis of a mixture of terephthalic and *p*-toluic acids 3537.

— **Kreshkov, A. P., Kazaryan, N. A.,** and **Pevzner I. D.** Analytical chemistry of non-aqueou solutions: review, 683.

— See also **Kreshkov, A. P.,** 2144, 2192, 2252, 3266

Byr'ko, V. M. See **Komissarova, L. N.,** 774.

Byrom, P., and **Hudson, J. B.** Correction of luminescence emission spectra by digital computer 3193.

Byu, N. V. See **Nguyen Van Byu.**

Bzdega, J., Rambuszek, T., and **Lewandowski, A** Determination of solid asphalt in mineral oil by the ring-oven technique, 3566.

C

Cadersky, I. Coulometric argentimetry of microgram amounts of sulphide. IV. Determinatio of sulphide by constant-current coulometri argentimetry in cyanide - alkaline electrolytes 3420.

Cadwallader, D. E. See **Das Gupta, V.,** 2367.

Caille, G. See **Braun, J.,** 3761.

Cairns, W. L. See **Treadwell, G. E.,** 2341.

Calder, A. B. Photometric methods of analysis *Book*: Sept.

Caldwell, H. C. See **Swintosky, J. V.,** 1691.

Caletka, R. Separation of zirconium-95 and niobium-95 by extraction chromatography, 2680.

Calhoun, M. J. See **Della Monica, E. S.,** 511.

Caligara, F., Martinot, L., and **Duyckaerts, G** Chronopotentiometric determination of uranium^{III}, uranium^{IV}, uranium^{VI} and neptunium^{I} in molten lithium chloride - potassium chlorid eutectic, 100.

Calin, C. G. See **Armeanu, V.,** 855, 2056.

Calmanovici, N. See **Hegesh, E.,** 3728.

Calusaru, A. Polarographic determination o deuterium in water, 717.

Calveras, J. O. P. See **Pascual Calveras, J. O.**

Calvert, J. M. See **Szego, L.,** 2604.

Calvin, M. See **McCarthy, E. D.,** 3496.

Calzolari, C., and **Favretto, L.** Application o 4-anilino-1-phenyl-1,2,4-triazolium chloride t the determination of cobalt^{II}, 3463.

— **Stancher, B.,** and **Pertoldi Marletta, G.** Investigation of origanum oils by GLC and i.r. spectrometry, 1500.

Cameron, A. J., and **Gibson, N. A.** Colorimetri determination of palladium with picolinaldehyd 2-pyridylhydrazone, 197.

Camier, M., and **Gonnard, P.** Automated determination of amino-acid decarboxylases, 3737.

Camilli, C. T. See **King, W. H., jun.,** 3256.

ampbell, A. D. Micro-analysis of unusual compounds. I. Weighing of hygroscopic samples for combustion analysis, 2772.
- **Harn, L. S., Monk, R.,** and **Petrie, D. R.** Micro-analysis of unusual compounds. II. Determination of carbon, hydrogen and nitrogen in organometallic perchlorates and nitrates, 2772.
ampbell, N. C. G., Clarke, J. R. P., Hill, R. R., Oberhaensli, P., Parish, J. H., Southam, R. M., and **Whiting, M. C.** GLC separation of the n-octenes, octalins, t-butylcyclohexenes, octanols, decalinols and t-butylcyclohexanols, 230.
ampbell, R. H., and **Young, E. J.** Determination of anti-degradants in styrene - butadiene rubber, 345.
ampbell, W. J., and **Brown, J. D.** [Analytical reviews, 1968]—Ultra-violet spectrometry, 677.
Canale, G. See **Bassi, B.,** 525.
Cante, C. J., Horowitz, J. H., and **Rosano, H. L.** Detection and determination of acid vapours at partly-exposed platinum electrodes, 2432.
Cantuti, V., and **Cartoni, G. P.** Chromothermography: applications in trace analysis, 1241.
Capdevila Perez, C., and **Roca Adell, M.** Spectrographic determination of traces of manganese in iron^{III} oxide, 2108.
Cape, R. E. See **Spencer, J. H.,** 2955.
Capella, P., and **Zorzut, C. M.** Determination of double-bond position in mono-unsaturated fatty acid esters by mass spectrometry of their trimethylsilyloxy-derivatives, 3520.
— See also **Losi, G.,** 2402.
Capitan Garcia, F., and **Roman Ceba, M.** Spectrophotometric determination of calcium with anthrapurpurin. I. In aqueous medium, 746; II. In aqueous ethanolic media, 58.
Capony, J.-P. See **Pechere, J.-F.,** 399.
Caramlau, M. See **Antonescu, I.,** 2595.
Carballido, A., and **Terraza Martorell, M.** Spectrophotometric determination of proteins in milk, 3032.
— See also **Villanua, L.,** 3054.
Cardinal, R. See **Bossenmaier, I.,** 2950.
Cardwell, T. J., Nasouri, F. G., McConnell, H. H., and **Magee, R. J.** Determination of antimony as the 8-hydroxyquinolinate, 128.
Carel, A. B. High-temperature laboratory preparative GLC manifold and trapping assembly, 3158.
Carelli, G. See **Amormino, V.,** 475.
Carey, C. E. See **Choulis, N. H.,** 2379.
Carey, F. G. See **Hicks, S. E.,** 3879, and **Vaccaro, R. F.,** 3880.
Carisano, A. See **Riva, M.,** 3961.
Carles, J. Automated determination of organic acids, 2910.
Carlier, A. See **Cerdas, J.,** 1148.
Carlier, S. See **Leclercq, M.,** 63.
Carlson, D. W. See **Altenau, A. G.,** 239.
Carlson, R. M., and **Paul, J. L.** Potentiometric determination of boron as tetrafluoroborate, 2009.
Carl-Zeiss Stiftung, trading as **Jenaer Glaswerk Schott & Gen.** Reference-electrode for measurement of electrochemical potential, 3243.
Carmichael, H. T., Meacham, S. A., and **Kermoshchuk, J. O.** Determination of iron, nickel and chromium in sodium, 3319.
Carneri, I. de, and **Meinardi, G.** Microbiological assay of antibiotic and vitamin preparations, 3751.
Carnes, R. A. See **Sawicki, E.,** 1054, 1819.
Carnevale Bonino, R. C. d'A. de. See **Lombardi, N. M.,** 1117.
Carnicelli, A. See **Luisi, M.,** 2309.
Carobene, G., and **Vicedomini, M.** Ion-exchange separation of thallium^{I} from lead^{II}, 86.
Carpenter, L. R. See **Jerman, R. I.,** 2446.
Carpenter, R. A. See **Jones, W. B.,** 1310.
Carpov, A., and **Hagen, E.** Pyrolysis characteristics of ion-exchange resins, 3179.
Carr, T. E. F., and **Sutton, A.** Determination of strontium and barium in small volumes of plasma by activation analysis, 1.
Carr-Brion, K. G., and **Payne, K. W.** Sample-holder cover for use in determination of light elements in liquids and powders by vacuum X-ray fluorescence spectrometry, 636. Determination of tungsten in ores by X-ray fluorescence, 2718.
Carreno, C. E. L. See **Labarta Carreno, C. E.**
Carroll, B. Physical methods in macromolecular chemistry. Vol. I, *Book*: Sept.
Carter, M. W. See **Moghissi, A. A.,** 673.
Cartier, P. H. Determination of oxidised and reduced pyridine nucleotides in blood and animal tissues, 438.
— and **Hamet, M.** Determination of purine phosphoribosyltransferase activity in human red cells, 1654.
Cartoni, G. P. See **Cantuti, V.,** 1241.
Cartwright, P. F. S. Separation of silver from lead by precipitation from homogeneous solution, 1996.
Caruso, A. J., and **Kim, H. H.** Method of stretching polypropylene for use as soft-X-ray detector windows, 3191.
Carver, R. D., and **Johnson, P. G.** Use of a spark-source mass spectrometer for the general analysis of geological samples, 1314.
Casassas, E. See **Fernandez, T.,** 707.
Casertano, F., Maroni, G. C., and **Fedeli, E.** Physiological lipiduria. I. Extraction, quantitative determination and qualitative characterisation of lipids, 1580.
Casparrini, G., Horning, M. G., and **Horning, E. C.** GLC study of phosphatidylserines, 1587.
Cassidy, R. M., and **Ryan, D. E.** Precipitation reactions of *N*-phenyl(thiobenzohydroxamic acid) and its use as a reagent for copper, 1349.
Castagnou, R., and **Sylvestre, M.** Determination of arsenic as molybdoarsenate, 2875.
Castellucci, N. T., and **Krouskop, N. C.** Low-density ceramic material for packing fractional-distillation columns [I]. 2450.
Caster, W. O. Linear sensitivity-programming in gas chromatography, 3966.
Castillo, F. de la C. See **Cruz Castillo, F. de la.**
Castillon, R. See **Drujan, B. D.,** 1090.
Castledine, S. A., and **Davies, D. R. A.** Aids to the identification of meat in meat products, 3020.
Castoldi, A. See **Giuffre, L.,** 2082.
Castre, C. See **Dugain, F.,** 2711.
Catanzaro, E. J., Murphy, T. J., Shields, W. R., and **Garner, E. L.** Absolute isotopic-abundance ratios of common, equal-atom, and radiogenic lead isotopic standards, 2055.
Catchpole, A. G. Studies in qualitative inorganic analysis. XXXI. Systematic detection of benzoate and succinate in mixtures, 1433.
Caticha-Ellis, S., Ramos, A., and **Saravia, L.** Use of primary filters in X-ray spectrography: method for trace analysis, 1310.
Cauchetier, P. Determination of plutonium: review, 3375.
— See also **Damien, N.,** 2659.
Causer, R. See **Baker, T. W.,** 1310, and **Wood, A. J.,** 3244.

Cavaleiro, J. A. da S., and **Crespo, V. P.** Potentiometric determination of silver and mercury with 2-mercaptobenzothiazole, 2596.

Cavina, G. Chromatographic fractionation of neutral lipids, 398.

— and **Giocoli, G.** Isolation and determination of corticosteroids from total lipid extracts of the adrenals, 406. TLC determination of aldosterone in cortical extracts for pharmaceutical use, 476.

— **Moretti, G.,** and **Sardi de Valverde, J.** Quantitative separation of oestrogens from oily solutions by TLC, and their GLC and colorimetric determination, 473.

Cavins, J. F., and **Friedman, M.** Automated computation of amino-acid analyses, 417.

Cayanus, L., and **Villalobos, R.** Accessory for analysis of liquids containing dissolved non-volatile substances by process gas chromatographs, 307.

Cayle, T., Viebrock, F., and **Schiaffino, J.** GLC of carbohydrates in corn syrup, 504.

Cazianis, C. T. See **Papadopoulou, C. P.,** 1.

Ceausescu, D., and **Asteleanu, M.** Micro-determination of components of mixed nitrogen - phosphorus - potassium fertilisers in a single sample, 1182.

Ceba, M. R. See **Roman Ceba, M.**

Ceci, L. See **Strassman, M.,** 2297.

Cee, A., and **Gasparic, J.** Identification of organic compounds. LXVIII. Chromatography and electrophoresis of vinyl sulphone or vinyl sulphone sulpho-ester reactive dyes, 319; LXIX. Paper and thin-layer chromatographic separation and identification of dichloroquinoxaline reactive dyes, 319.

— See also **Adamek, M.,** 2822.

Ceeova, J. See **Franc, J.,** 2184.

Cegarra, J., and **Gacen, J.** Determination of tryptophan in wool by hydrolysis with sulphuric acid, 1508.

Cejkova, V. See **Ciz, K.,** 2398.

Celon, E., Biondi, L., and **Bordignon, E.** Detection and micro-determination of 3- or 5-nitro-2-pyridyl derivatives of amino-acids by TLC on precoated sheets, 1607.

— and **Bresadola, S.** Micro-determination of carbon and hydrogen in polymeric compounds containing boron and silicon, 1436.

Centre National de la Recherche Scientifique. Means for obtaining the inverted Raman spectrum of a substance, 1273. Improvements in spectroscopy, 3186.

Cerbo, M. di. See **Cianetti, E.,** 1520.

Cerdas, J., Carlier, A., Puisieux, F., and **Le Hir, A.** Analysis of ointments. V. Study of composition of esters of polyhydroxyethylated sorbitan, 1148.

Cermak, J. See **Dostal, P.,** 2253.

Cernicki, B. K., Muehl, J. V., Janovic, Z. J., and **Sliepcevic, Z. K.** NMR determination of the composition of styrene - acrylonitrile copolymers, 329.

Ceskoslovenska Akademie Ved. GSC apparatus for measuring small quantities of gas, especially inert gases in minerals, 1223. Method and device for measuring liquids into capillary tubes, particularly for automatic amino-acid analysers, 1230. Flow-through measuring cell for photometers, 1283. Measuring cell for flow-through photometers, 1284. Devices for analysing liquids flowing through capillary tubes, 3918. Burner for flame photometry, particularly for determining properties of aerodispersive systems, 3993.

Chadwick W., I. See **Donoso N., G.,** 2650.

Chafetz, L., Boudjouk, M. G., Tsilifonis, D. C., an **Hom, F. S.** Validation of methanol - sulphuri acid colorimetry as a stability assay method fo quinestrol by comparison with GLC, 2388.

— **Kay, A. I.,** and **Schriftman, H.** Selective detection of catechols and other phenolic compound on cellulose TLC plates, 3532.

— **Schriftman, H.,** and **Kay, A. I.** Validity of th Doty reaction as a stability-indicating assay fo isoprenaline in an aerosol preparation, 1136.

— See also **Talmage, J. M.,** 2393.

Chaigneau, M., and **Le Moan, G.** Colorimetri procedures for differentiating between nitrou oxide and oxygen with reference to safety i anaesthesia, 2997.

Chaikin, P.I., Saprinovskaya, T. K., an **Shcherbakova, L. P.** Rapid determination o radium-224 in silicate rocks by measurement o radon-220, 795.

Chaikina, M. V. See **Mishchenko, L. V.,** 1399.

Chait, E. M., Shannon, T. W., Amy, J. W., an **McLafferty, F. W.** Elementary compositio determination by field-ion mass spectrometry 1296.

Chakrabarty, M. M., Bandyopadhyay, C., Bhattacharyya, D., and **Gayen, A. K.** Detection o adulteration of fats by TLC of trisaturated glycerides. I. Detection of hydrogenated arachis oi tallow and Mowrah oil in ghee, 3802.

Chakraborty, A. See **Mitra, N. K.,** 3318.

Chakraborty, M., and **Dutta, S. K.** Determinatio of vitamin B_1 in pharmaceutical preparations, 48

Chalmers, R. A., and **Watts, R. W. E.** Enzymi spectrophotometric method for the determinatio of hypoxanthine plus xanthine in urine and bloo plasma, 2337.

Chamberlain, M. J., Fremlin, J. H., Peters, D. K and **Philip, H.** Determination of total bod sodium in the living subject by whole-bod neutron activation, 2269. Determination o total body calcium by whole-body neutro activation, 2271.

Chamberlain, N. F. NMR chemical shifts of oxygenated unsaturated aliphatic compounds, 217

Chamberlain, W. J. See **Stedman, R. L.,** 373.

Champion, K. P., and **Whittem, R. N.** X-ra fluorescence analysis of standard kale powde 3606.

Chan, F. L. X-ray fluorescence methods wit vacuum and air-path spectrographs for th determination of film thicknesses of II - V compounds, 1310.

Chan, K.-Y., Sun, P., and **Tam, T.-P.** Spectrophotometric determination of traces of aluminium, iron and chromium in thorium compounds, 96.

Chan, Y.-C., and **Forrest, A. M.** Platinum resistanc thermometer calibration between −271° and 0 4033.

Chanal, J. See **Puech, A.,** 1715.

Chandra, S., and **Yadava, K. L.** Oxidation o sugars with copper^{III}, 243.

Chandra, U., Tayal, J. N., and **Nand, P.** Volumetri method for estimation of streptomycin sulphat in drugs, 2362.

Chandrasekharaiah, M. S. See **Dharwadkar, S. R** 3373.

Chang, C. M., Johnson, S. A., Vercellotti, J. R., an **Barboriak, J. J.** Whole-blood adenine nucleotid micro-determination applicable to haemostas experiments, 1082.

Chang, T.-L. Analysis of tall oil by gel permeatio chromatography, 1521.

Chang, Y. K. See **Higgins, R. J.,** 1295.

ang-Kakoti, D. K. See **Hanson, C.**, 273.

apman, A. C. See **Brown, J. M.**, 2501.

apman, I. L. See **Brown, I.**, 2460.

apman, J. R. See **Barber, M.**, 258.

apman, R. L. Air-pollution control systems, 3859.

arcosset, H. See **Urbain, H.**, 2126.

ariot, J. Determination of the pepsin activity of serum by the Mirsky method. I. Influence of the quality of haemoglobin used as substrate, 2349; II. Problems posed by determination of the hydrolysis products, 2970.

arlier, G. O. See **Obermiller, E. L.**, 3305.

arnetski, W. A., and **Bergen, H. J.** Portable light-weight special-purpose and modular racks for the chemical laboratory, 3132.

arro-Salgado, A. L. See **Shackleton, C. H. L.**, 2919.

ase, M. W. See **Kawata, H.**, 3927.

asset, R. See **Pellerin, F.**, 2976.

astagner, N. See **Le Perdriel, F.**, 1135.

atten, L. G. Pharmaceutical chemistry. Vol. II. Instrumental techniques, *Book*: Nov.

— and **Barry, P. J.** Identification and differentiation of organic medicinal agents. VI. Use of 5-nitrobarbituric acid as a differentiating reagent, 1660.

atterjee, P. C. See **Kulkarni, N. G.**, 1516.

atterjee, S. C., Guha, A., and **Ghosh, S. K.** Characterisation of phases formed in acidulated rock phosphate and their estimation by an X-ray diffraction method, 3841.

hattopadhyay, S. K. See **Brown, H. D.**, 1560.

hau, Y.-K. Determination of trace amounts of scandium by atomic-absorption spectrophotometry, 1371.

— and **Wong, P.-Y.** Determination of scandium in sea-water by atomic-absorption spectrophotometry, 3878.

havane de Dalmassy, B. See **Buijs, K.**, 2043.

haveron, H. GLC determination of ethanol in confectionery products, 3796.

havez Preciado, A. Substitution of hydrogen for helium in gas chromatography with thermal-conductivity detectors, 2463.

hawla, I. D. See **Rogers, D. W.**, 2832, and **Walters, D. B.**, 1169.

hawla, K. L., and **Tandon, J. P.** Semi-micro determination of azo- and nitroso-compounds and quinones with vanadium^{II} sulphate, 2199. Determination of vanadium^{III} with common oxidising agents, 2694.

hayen, R. See **Neufeld, E.**, 2327.

heek, C. H. See **Swinnerton, J. W.**, 1209.

hemerisskaya, A. A. See **Granik, E. M.**, 1484, and **Merlis, V. M.**, 2353.

hen, I-W., Kereiakes, J. G., Friedman, B. I., and **Saenger, E. L.** Colorimetric determination of deoxycytidine in urine after separation by ion-exchange column chromatography, 1632.

hen, J.-Y. T., and **Gould, J. H.** Infra-red studies of ethylene chlorohydrin, 3061.

hen, K. A. Logarithmic attenuator for use with flame ionisation detectors, 2465.

hen, R. F. Use of 4-methylumbelliferone as fluorescent pH indicator, 685.

heng, F. W. Micro-determination of adjacent hydroxyl groups in organic compounds, 1443.

heng, K. L. Multiplication of selenium with 3,3′-diaminobenzidine, 826.

— and **Goydish, B. L.** Precipitation titration of molybdate, tungstate, per-rhenate and fluoride with lead, 37.

— See also **Cornwell, J. C.**, 3424.

Cherin, P., Davis, E. A., and **Bielan, C.** Determination of composition of continuous solid solutions by X-ray techniques, 633.

Cherkashina, T. V. See **Pevzner, K. S.**, 3416.

Cherkasskii, A. A. See **Sokolova, E. V.**, 1504.

Cherkesov, A. I., Kazakov, B. I., and **Shchepko, V. I.** Photometric determination of aluminium in copper alloys and in chalk with stilbazochrome, 2621.

Chernaya, N. V., and **Shnaiderman, S. Ya.** Spectrophotometric determination of titanium^{IV} in steel with naphthalene-1,8-diol in methanol, 3458.

Chernova, A. I. Spectrographic determination of inorganic impurities in *p*-benzoquinone and quinol, 921.

Chernova, E. A. See **Basargin, N. N.**, 2417.

Chernyaeva, Z. N. See **Vail', E. I.**, 2693.

Chernyshova, L. I. See **Ryazantseva, I. M.**, 3349.

Cherry, J. Amperometric determination of uranium with iron^{II} sulphate as reductant, 2035.

— **Holmes, J.,** and **Williams, J. J. B.** Amperometric determination of plutonium with silver^{II} as oxidant and iron^{II} as reductant, 789.

Chesters, G. See **Pionke, H. B.**, 2442.

Chetal, U. See **Gupta, S. C.**, 1722.

Chetkowski, W. Determination of traces of zinc in plain and alloy steel, 3456.

Chiaki, E., Tomita, Y., and **Ezawa, M.** Spectrophotometric determination of manganese in magnesium manganese ferrite, 2103. Determination of magnesium in nickel for electron tubes, 2127.

Chibata, I., Yamada, S., Yamamoto, M., and **Wada, M.** Resolution of DL-amino-acids by preferential crystallisation. I. Preparation of optically active alanines, 3700.

Chiccarelli, F. S. Determination of 6-demethyltetracycline hydrochloride in demethylchlortetracycline hydrochloride, 2365.

Chickerur, N. S., and **Narasaraju, T. S. B.** Quantitative separation of calcium, strontium and phosphate, 1333.

— See also **Singh, Ramesh P.**, 749.

Chidambaram, S., Krishnan, S. V., and **Pathy, M. S. V.** Redoxokinetic determination of organic compounds. I. Determination of nitrobenzene, anthraquinone, *p*-nitroanisole or 1-nitroso-2-naphthol, 3545.

Chikryzova, E. G., and **Kopanskaya, L. S.** Oscillopolarographic behaviour of tellurium^{IV} in acid solution, 2707.

Chilton, N. M. D. See **Greenfield, S.**, 1895.

Chin, H. P., and **Blankenhorn, D. H.** Separation and determination of serum lipoproteins by electrophoresis on cellulose acetate, 1582.

Chin, T.-F. See **Wesolowski, J. W.**, 1684.

Chin, W.-T., Cullen, T. E., and **Stanovick, R. P.** Micro-determination of phenol by mono- and poly-chloroacetylation followed by microcoulometric GLC, 919.

Chiotis, E. L., Welford, G. A., and **Morse, R. S.** Trace determination of nickel by combining paper chromatography with radiometric precipitation, 190.

Chipault, J. R. See **Mizuno, G.**, 620.

Chirita, C. See **Teodorescu, N.**, 727.

Chirkova, E. N. Combustion of biological samples for subsequent analysis by measurement of soft β-radiation, 1537.

Chirnside, R. C. See **Still, J. E.**, 3480.

Chissick, S. S., Fischer, J. R., Hammond, M. W., McIntosh, D. J., and **Smith, L.** Oscilloscope to cathode-ray polarograph conversion unit, 662.

Chistyakova, L. A. See **Lapuk, V. Kh.**, 3702.

Chiu, J. Polymer characterisation by coupled thermogravimetry - gas chromatography, 3587.

Chobanov, D. See **Popov, A.,** 953.

Chodos, A. A. Electron-probe micro-analysis of nickel - iron - cobalt thin-film wire memory-elements, 2128.

Choluj-Lenarczyk, L. See **Marczenko, Z.,** 848.

Chong, C. W. See **Swintosky, J. V.,** 1691.

Chopra, S. L., Bajaj, K. L., and **Tharoor, N.** Micro-determination of manganese in plant and food materials, 1780.

— See also **Khanna, S. S.,** 3838.

Chortyk, O. T. See **Krewson, C. F.,** 1526.

Choudens, C. de. Spectrophotometric determination of sulphur dioxide and hydrogen sulphide in gaseous effluents from a sulphate-pulp mill, 1216.

Choulis, N. H. TLC separation and determination of prednisone, fluocinolone acetonide and paramethasone acetate, 3778.

— and **Carey, C. E.** Quantitative TLC of sympathomimetic amines, 2379.

Chovnyk, N. G. See **Rutberg, L. G.,** 2675.

Chow, T. J. Isotope analysis of sea-water by mass spectrometry, 576.

Chow Pangtay, S. Chromatographic columns for automated detection of acetylenes in propene and butadiene, 891.

Christensen, C. J. See **Eyring, H.,** *Book*: Nov.

Christensen, G. M. See **Cowles, E. J.,** 2316.

Christian, G. D., and **Feldman, F. J.** Micro-cell for coulometric titrations, 2523.

— and **Moody, J. R.** Spectrofluorimetric determination of malic acid with 2-naphthol, 1454.

— See also **Feldman, F. J.,** 2877, **Moody, J. R.** 2580, and **Simon, R. K.,** 1564.

Christie, W. W. Chromatography of isomeric methylene-interrupted methyl *cis,cis*-octadecadienoates. I. Argentation TLC, 904.

Chromy, L., and **Uhacz, K.** Antifouling paints based on organotin compounds. I. Colorimetric determination of microgram amounts of organotin compounds in aqueous solutions, 2848.

Chu, R. Identification of fish by disc electrophoresis, 3025.

Chubachi, M., Kawano, E., and **Hamada, M.** Determination of carbon-14 in the methoxy-group of organic compounds, 2150.

Chudzik, J., and **Klein, A.** Use of Sephadex G-25 in thin-layer electrophoresis and electrochromatography of amino-acids and low-molecular-weight peptides, 3707.

Chugai Seiyaku Kabushiki Kaisha. Determination of the enzymic activity of carbonyl compound - $NADH_2$ redox enzymes, 2963. Determination of glutamate : oxo-acid aminotransferase activity, 3730.

Chughtai, F. R. See **Hashmi, M. H.,** 26, 419, 2881.

Chughtai, N. A. See **Hashmi, M. H.,** 419, 2793, 2881.

Chultem, D. See **Abdullaev, Kh.,** 1383.

Chumachenko, M. N., and **Alekseeva, N. N.** Determination of sulphur in organic substances, 3489.

— and **Levina, N. B.** Chromatographic - coulometric determination of carbon, hydrogen and nitrogen in organic substances, 2776.

Chung, K. S., and **Beamish, F. E.** Study of osmium and ruthenium distillation with radioactive tracers, 3476.

Chupakhin, M. S. Mass-spectrometric methods with a spark ion source for the analysis of solid and liquid substances of high purity, 4012.

Chwastowska, J., Dybczynski, R., and **Kucharzewski, B.** Spectrochemical determination of impurities in platinum metal and platinum - rhodium alloys, 3478.

Cianetti, E., and **Cerbo, M. di.** Spectrophotometr of natural resins, 1520.

Ciantelli, G. See **Cozzi, D.,** 1958, 2454.

Ciardi, J. E., and **Anderson, E. P.** TLC separatio of purine and pyrimidine derivatives, 433.

Ciecierska-Stoklosa, D. See **Ciecierska-Tworek, Z** 3320.

Ciecierska-Tworek, Z., Waledziak, H., Gorczynska K., and **Ciecierska-Stoklosa, D.** Colorimetri determination of boron in sodium hydroxid with curcumin, 3320.

Cieleszky, V. See **Czegledi-Janko, G.,** 2894.

Cieszynski, T. TLC separation of adiphenin amidopyrine, allobarbitone and phenobarbiton when present together, 482.

Cingolani, E. See **Amormino, V.,** 470, 474, 475.

Ciszewska, M. See **Soczewinski, E.,** 3561.

Ciuffini, G. See **Lato, M.,** 245, 3641.

Ciuhandu, G., and **Dumitreanu, A.** Detection an determination of formic acid and formates, 90

— and **Mracec, M.** Photometric determination benzene and its derivatives, 1465.

— and **Rusu, V.** Photometric micro-determinatio of carbon monoxide in blood and in air, 1009.

Ciurlo, R., and **Biino, L.** Refractometric eugen method for determination of fat in chocolat 1152.

Ciusa, W., D'Arrigo, V., Maini, F., and **Penna,** Content of polycyclic aromatic hydrocarbons i olive oil, 1173.

Ciz, K., and **Cejkova, V.** Size measurement sugar-dust particles, 2398.

CKD Dukla, N.P. Determination of residu oxygen in deoxygenated water, 3881.

Claeys, R. R., and **Farr, T.** Venting apparatus an cleaning procedure for electron-capture detector 1255.

— and **Freund, H.** GSC separation of hydrocyan acid on Porapak Q: determination of traces aqueous solutions, 3125. Gas-chromatograph behaviour of the stationary phase near th freezing-point, 3953.

Clapperton, J. F., and **Holliday, A. G.** GLC dete mination of carbohydrates in wort and beer, 176

Clark, A., and **Timms, B. G.** Reduced 2,6-dichlor phenolindophenol as a replacement for *o*-tolidi in enzymic determination of blood glucose, 156

Clark, A. J. See **B.P. Chemicals (U.K.) Ltd** 1253.

Clark, B. R., Rubin, R. T., and **Arthur, R. J.** Micr determination of cholesterol in serum, 3672.

Clark, G. W. Inexpensive preparative thin-lay and thick-layer chromatography, 1238.

Clark, H. See **Billman, D. C., jun.,** 1791.

Clark, J. A. See **Burns, D. T.,** 840.

Clark, J. K. Differentiation of *cis - trans* configur tions of trialkylethylene isomers by i.r. spectr metry, 2155.

Clark, R. D. Simplified calculation of small tempe ature differences from resistance-thermomet measurements, 4035.

Clarke, E. M. W., Ellinger, G. M., and **Syng R. L. M.** Fractionation of plant material. I Distribution of amino-acid residues in fractio obtained from broad-bean leaves, 1614.

Clarke, J. R. P. See **Campbell, N. C. G.,** 230.

Clarkson, T. W., and **Greenwood, M. R.** Determin tion of mercury in urine and tissues by isoto exchange, 2864.

— See also **National Research Development Corpor tion, 1194.**

Clausen, C. A., III, and **Good, M. L.** Effect cation on the Mossbauer spectra of tetrahal ferrate anions, 1311.

uvel, M., and **Schwartz, K.** Difficulties in letermination of blood oxygen by the Van Slyke nethod, 431.

wson, A. R. Back-reflection X-ray diffraction or selected small areas, 1264.

yton, F. R., jun. See **Mamantov, G.,** 22.

yton, J. D. See **Mefferd, R. B., jun.,** 3964.

ary, J. J., and **Hamilton, E. I.** Loss of polonium-210 on dry-ashing rat tissues in a muffle-furnace, 995.

aver, T. J. See **Hunt, J.,** 1842.

m, R. G., and **Huffman, E. H.** Amperometric titration of palladium^{II} with hypochlorite, 1428.

ments, J. A. Developments in the theory and practice of continuous-flow analysis, 1313.

ments, N. L. Microbiological assay for aflatoxin B_1, 1575.

ments, R. L. See **Mesley, R. J.,** 1680, 1681.

rck, J. de, and **Jerumanis, J.** Determination of polyphenols in brewing materials, 1766.

rmont-Beaugiraud, S. TLC of mono- and oligo-saccharides, 3642.

yrergue, C. See **Albert, P.,** 2702.

ifford, D. R., and **Watkins, D. A. M.** GLC of alkyldinitrophenols, 554.

inch, P. G. See **Turner, J. C.,** 2399.

al Tar Research Association. Review of coal tar technology, 310.

bler, J. G. See **Dow Chemical Co.,** 3926.

chran, E. M., Inskip, E. B., King, P., and **Ziegler, H. W.** Analysis of barium sulphate, 2352.

ckle, N. A., and **Tiley, P. F.** Adsorption errors with small solute samples in GLC, 3967.

cks, G. G. [Analytical reviews, 1968]—Chemical microscopy, 677.

dy, R. D. Spectrographic determination of boron in clay shales, 2618.

e, F. R. See **Perriton, R. C.,** 3909.

edo, A. G. See **Gomez Coedo, A.**

etzee, J. F., and **Ritchie, C. D.** Solute - solvent interactions, *Book*: Nov.

etzer, F. J. Spectrochemical analysis of plant material by the rotating-disc technique, 1176.

— See also **Beyers, C. P. de L.,** 1179.

ggiola, L. N. See **Guglielmone, A. E. R. de,** 3697.

ha, F. Ninhydrin reaction for TLC detection of dimefox, 1811.

— and **Vojinovic, V.** Determination of herbicides by the ring-oven technique, 1185.

hen, H. P. See **Yee, C.,** 386.

hen, I. C., Smith, A. F., and **Wood, Robert** Field method for determination of ozone in air in the presence of nitrogen dioxide, 3861.

hen, Sabatino, and **Bryan, F. R.** X-ray fluorescence spectrographic determination of cerium in nodular iron, 2738.

hen, Sheldon. Determination of volatile components in pressurised aerosols by GSC, 2394.

hen, S. R. See **Salzberg, H. W.,** *Book*: Nov.

hort, G. See **Voinovitch, I. A.,** 2143.

irault, Y. See **Vendrely, R.,** 1089.

lard, J. See **Dubois, J.,** 1, and **Puymbroeck, S. van,** 1.

larusso, V. G., and **Semon, M. A.** Measurement of calibration standards for thermometry, 4032.

lby, J. W. Quantitative micro-probe analysis of thin insulating films, 1310.

le, L. J. See **Guri, C. D.,** 1631.

leman, J. S., and **Gilbert, G. L.** Separation of anionic chromium^{III}-thiocyanate complexes by displacement analysis, 837.

leman, R. F., and **Wood, G. A** Trace analysis in the forensic examination of glass fragments, 884.

ll, E. E. See **Pearcy, L. Z.,** 260.

Collaborative International Pesticides Analytical Committee. Recommended analytical methods for pesticides. XXXVIII. Test for emulsion characteristics of emulsifiable concentrates, 1188; XXXIX. Methods of analysis for technical and formulated trichlorphon, 1188; XL. Methods of analysis for technical and formulated endothion, 1188.

Collee, R. Determination of the optimal temperature for the precipitation of thorium iodate, 1380.

Collier, R. J., Collins, M. A., and **Moss, D. G.** X-band electron spin resonance spectrometer with a ruby maser pre-amplifier, 2514.

Collins, M. A. See **Collier, R. J.,** 2514.

Collins, R. L. A one-sided view of Mossbauer spectroscopy, 1311.

Colombo, A., and **Rodari, E.** Vacuum-fusion determination of oxygen in aluminium and aluminium - aluminium oxide composites, 2625.

Colovos, G., and **Papadopoulos, C.** Automated catalytic micro-determination of copper, 1986.

Comar, D., and **Kellershohn, C.** Use of radioactivation analysis in medicine, 1.

Comer, I. See **Stevenson, C. E.,** 2375.

Common, R. H. See **Anastassiadis, P. A.,** 4.

Concialini, V. See **Lanza, P.,** 2276.

Condal-Bosch, L. See **Burriel-Marti, F.,** 240.

Condamin, J. See **Tousset, J.,** 741.

Conklin, R. L. See **Burnett, G. H.,** 2884.

Connon, A. F. See **Ovenstone, J. A.,** 2334.

Connors, K. A. See **Hong, W.-H.,** 2176.

Conrad, F. J. See **Kenna, B. T.,** 793.

Conradie, J. D., and **Neethling, L. P.** TLC separation of anthocyanins in grape varieties, 1072.

Conroy, N. H. See **Paylor, R. A. L.,** 2254.

Constantinescu, T. See **Ignat, V.,** 1140.

Conte, A. See **Sassu, G. M.,** 966.

Conti, R., Toussaint, C. J., and **Vos, G.** Application of X-ray diffraction analysis to uranium ceramics. II. Analysis of uranium carbides, 788.

Contractor, S. F., and **Shane, B.** Determination of vitamin B_6 compounds in human blood and urine, 2959.

Conway, J. E., and **Stevenson, F. D.** Separation of niobium and tantalum by reaction of the metal pentachlorides with calcium oxide and calcium fluoride, 138.

Conzemius, R. J. See **Svec, H. V.,** 1982.

Cook, C. E. See **Hamilton, P. B.,** 2981.

Cook, W. S., Jones, C. O., and **Altenau, A. G.** Determination of metals in polymers by X-ray fluorescence, 2248.

Cooke, I. J. See **Hislop, J.,** 541.

Cooke, R. Enzyme studies with the Mossbauer effect, 1311.

Coomber, R. S. See **Cowlin, P.,** 3988.

Cooper, D. R., and **Davidson, R. J.** Chromatographic separation of the collagen molecular sub-units, 1621.

Cooper, G. R. Standardisation and control of quantitative analyses, 1312.

Cooper, R. D., Linekin, D. M., and **Brownell, G. L.** Activation analysis of biological tissue without chemical separation, 1.

Cooper, R. M. See **Fisher, N.,** 2500.

Cope, B. Semi-automatic timed end-point Karl Fischer titrator, 3247.

Copeland, B. E. Quality control system for clinical chemistry and its applications, 1312.

Coppini, D., and **Albasini, A.** Determination of saccharin and cyclamate by i.r. spectrophotometry, 3051.

Copreanu, N. See **Liteanu, C.,** 698.

Corbett, J. A. Spectrophotometric determination of titanium in iron and steel with diantipyrinylmethane, 2114.
Cord, M. S. See **Wacker, P. F.**, *Book*: Nov.
Cordon, T. C., Maurer, E. W., Panasiuk, O., and **Stirton, A. J.** Analysis for sulphate ion in the biodegradation of anionic detergents, 3575.
Cordos, E., and **Trica, L.** GLC analysis of the system sulphur dioxide - carbon dioxide - chlorine - air, 750.
Corley, C., and **Beroza, M.** GLC determination of malathion and malaoxon, 1168.
Corliss, J. B. See **Gordon, G. E.,** 1429.
Cornack, A. A. See **Hayward, F. W.,** 527.
Cornfield, A. H. See **Nadirshaw, M.,** 3097, and **Premi, P. R.,** 2266.
Cornu, A. See **Boulet, R.,** 936.
Cornwell, D. G. See **Rao, P. V.,** 401.
Cornwell, J. C., and **Cheng, K. L.** Analysis of tellurides of lead and tin by automated potentiometric titration, 3424.
Corona, G. L. See **Maffei Facino, R.,** 3626.
Correa, D. de B. See **Mesquita, A. A. L.,** 3552.
Corte, F. de, Winkel, P. van den, Speecke, A., and **Hoste, J.** Distribution coefficients for elements in oxalic acid medium on a strong anion-exchange resin, 2561.
— See also **Winkel, P. van den,** 3277.
Cortellessa, G. C., and **Napoli, C. A.** Potentiometric micro-determination of sulphur in poly(vinyl alcohol) as sulphate, 3590.
Cortivo, L. A. D. See **Dal Cortivo, L. A.**
Cosci, G. See **Vanzetti, G.,** 1888.
Coscia, P. L., and **Fiandaca, A.** Electrophoretic techniques for serum proteins, glycoproteins and lipoproteins, 2942.
Cosgrove, J. F., Oblas, D. W., Walters, R. M., and **Bracco, D. J.** Trace analysis for rare-earth metals, 1373.
— See also **Persiani, C.,** 2073, 2613.
Cosi, G. Separation and determination of nicotinamide, inosine and uridine 5′-phosphate, 2958.
Cosmin, A. See **Georgescu-Pazarinina, V.,** 2998.
Costache, D. See **Popa, G.,** 2120.
Costello, J. See **Weymouth, J. W.,** 1263.
Costinescu, P. See **Armeanu, V.,** 855, 2056.
Cottino, F., Magro, G., and **Malvano, R.** Neutron-activation analysis for the study of iodine balance in man, 1.
Cotton, Silk and Man-Made Fibres Research Association. Moisture-sensitive instrument, 1235.
Coulter, J. R., and **Hann, C. S.** GLC analysis of amino-acids by using the n-propyl *N*-acetyl esters, 3698.
Coulter Electronics Ltd. Continuous-flow particle-measuring apparatus, 1941.
Coupe, N. B., and **McKeown, M. C.** Pyrolysis - gas chromatography using a 'Curie point' system, 3941.
Coupek, J. See **Heitz, W.,** 3925.
Coutselinis, A. S. See **Eliakis, C. E.,** 2288.
Coutts, R. T., Hindmarsh, K. W., Powell, S. J., Pound, J. L., and **Smith, E. M.** Characterisation of cyclic hydroxamic acids by means of i.r. spectroscopy, 1485.
Covello, M., and **Schettino, O.** Spectrophotometric determination of ouabain with dipicrylamine in alkaline medium, 1670.
Covington, A. K., Paabo, M., Robinson, R. A., and **Bates, R. G.** Use of the glass electrode in deuterium oxide and the relation between the standardised p^{2}H scale and the operational pH in heavy water, 1303.
— See also **Beck, W. H.,** 656.
Coward, J. See **Kinsella, E.,** 3223.
Coward, R. F., and **Smith, P.** Detection of oxo- acids in biological fluids by two-dimensional paper chromatography of their 2,4-dinitrophenylhydrazones, 389.
Cowgill, U. M. Method to determine all detectable exchangeable cations using X-ray emission and optical emission spectroscopy, 1314.
Cowles, E. J., Christensen, G. M., and **Hilding, A. C.** Detection of indolamines and catecholamines on chromatograms by heating with paraformaldehyde, 2316.
Cowlin, P., and **Coomber, R. S.** Fluorescence trace detector for on-line contamination monitoring, 3988.
Cox, F. H. See **Fresen, J. A.,** 3619.
Cox, J. A. See **Hartley, A. M.,** 1923.
Cox, R. Assessment of tin ores *in situ* with a portable radio-isotope X-ray fluorescence analyser, 3388.
Cozzi, D., Desideri, P. G., Lepri, L., and **Ciantelli, G.** Alginic acid as a TLC material. I, 2454; II Separation of metal ions, 1958.
Craciuneanu, R. See **Roman, L.,** 1427.
Craddock, J. H. See **Tinker, H. B.,** 1225.
Craig, J. C., jun. See **Della Monica, E. S.,** 511.
Craig, N. R. See **Hayden, A. L.,** 1862.
Cram, S. P., and **Brownlee, J. L., jun.** Neutron activation analysis as a quantitative elementary gas-chromatographic detector: application to organofluorine compounds, 2188. Gas-chromato graphic resolution of γ-ray scintillation spectra for the neutron-activation analysis of short-lived isotopes, 2527.
Crambes, M. R. See **Nargolwalla, S. S.,** 825.
Cramer, K. See **Selander, S.,** 361.
Cranmer, M. F. Estimation of the acetylcholin levels in brain tissue by GSC of acetic acid, 1049 Gas-chromatography detector by-pass valve 2462.
Craubner, H. Combined adapter and graduated dropping-funnel for vacuum fractionation a controlled temperatures and in an inert atmo sphere, 588.
Crawford, L. R., and **Morrison, J. D.** Compute methods in analytical mass spectrometry. [I. Identification of an unknown compound in catalogue of spectra, 4014; [II.] Empirica identification of molecular class, 4014.
Crawley, D. F. C. Micro-mesh sieve analysis wit high-frequency ultrasonic vibration, 1945.
Creaven, P. J. See **Roach, M. K.,** 3635.
Crespi, H. L. See **Saur, W. K.,** 375.
Crespo, V. P. See **Cavaleiro, J. A. da S.,** 2596. ,
Cress, E. A. See **Snyder, F.,** 2302.
Cretu, E. See **Bauer, M.,** 1108.
Creveling, C. R., Kondo, K., and **Daly, J. W.** Us of 5-dimethylaminonaphthalene-1-sulphonyl der vatives and mass spectrometry for identificatio of biogenic amines, 1597.
Crew, M. C., and **Dicarlo, F. J.** Identification an assay of isomeric glycerol nitrates labelled wit carbon-14, 3630.
Cripps, F. H. See **Aldersley, K.,** 2654.
Crisan, I. A. Calculation of the equivalence-poin in titrations involving substitution and additio reactions, 682.
— and **Gorbe, E.** Determination of gallium b titration of unconsumed EDTA with iron^{III} i the presence of sulphosalicylic acid, 2626.
— and **Pricop, D.-C.** Determination of tungsten by titration of unconsumed iron^{III} with EDT in the presence of sulphosalicylic acid, 2717.

san, I. A. and **Tanase, P.** EDTA analysis of mixtures of copper^{II} and zinc^{II}, 728. Determination of cadmium^{II} with EDTA in the presence of Eriochrome red B, 756.

See also **Liteanu, C.**, 698, 857, and **Scridon, F.**, 2630.

sler, R. O. Computer-aided spectroscopy, 2. [Analytical reviews, 1968]—Infra-red spectrometry, 677.

ss, J. W., and **Birks, L. S.** Empirical coefficients *vs.* fundamental parameters in X-ray fluorescence spectrometry, 2487.

istau, B. See **Gouezo, F.**, 1692.

ocket, J. H., Keays, R. R., and **Hsieh, S.** Determination of precious metals by neutron-activation analysis, 2568.

oizet, J. See **Blanquet, P.**, 992.

oizet, M., Dumora, F., Moura, A. M., and **Blanquet, P.** Chromatography of amino-acids and peptides, 2931.

See also **Blanquet, P.**, 992.

omey, P. R. See **Smith, D.**, 1908.

ompton, T. R. Identification of trace elements and additives in polyolefins and polystyrenes, 3589.

— and **Myers, L. W.** GLC determination of styrene monomer and other aromatic volatile compounds in conventional and modified polystyrenes. II, 328.

os, A. T. See **Traveria Cros, A.**

osby, N. T. Determination of ammonia by the Nessler method in boiler waters containing hydrazine, 2444.

ossley, D. See **Milner, G. W. C.**, 2658.

ow, D. R. Polarography and the application of polarographic techniques. VI, 659.

ozat, G. See **Marenco, A.**, 563.

ummett, W., and **Hummel, R.** [Analytical reviews, 1968]—Ultra-violet spectrometry, 677.

uz Castillo, F. de la. See **Barrera Pinero, R.**, 2405.

sanyi, P. See **Fodor** (nee **Csanyi**), **P.**

ikor, P., and **Weberling, R. P.** Spectrofluorimetric determination of trace amounts of cerium in yttrium oxide, 1372.

ullen, L. F., Packman, D. L., and **Papariello, G. J.** Automated colorimetric method for determination of free salicylic acid in products containing aspirin, 2992.

ullen, T. E. See **Chin, W.-T.**, 919.

ulmo, R. Micro-determination of oxygen in organic compounds with an automatic elementary analyser, 2774.

— and **Fyans, R.** Handling of liquid samples in organic elementary analysis, 2771.

ummings, J. G. See **Peters, J. H.**, 2321.

ummings, T. F., and **Korkisch, J.** Anion-exchange separation of thorium from rare-earth elements in acetone - hydrochloric acid medium, 94.

ummings, W. V. Applications of X-ray analysis: irradiation effects in some crystalline ceramics, 1310.

undall, R. B., and **Evans, G. B.** Fully compensated versatile spectrofluorimeter, 639.

unningham, A. T. S. See **Ratcliffe, D. B.**, 883.

upfer, M. See **Albert, F. M.**, 3538.

urea, E. See **Grecu, I.**, 3004.

urnow, D. C., Gutteridge, D. H., and **Horgan, E. D.** Determination of strontium in serum and urine by atomic-absorption spectrophotometry, 2861.

urrie, G. T. See **Ellis, Rex**, 3822.

urry, A., and **Thomas, C. C.** Poison detection in human organs, *Book*: Nov.

Curry, S. H. Determination of nanogram quantities of chlorpromazine and its metabolites in plasma using GLC with an electron-capture detector, 2282.

Curtis, C. E. Contamination indices in degerminated corn products, 538.

Curtis, M. L. Determination, at the p.p.m. level, of plutonium-236 in plutonium-238 by α-pulse-height analysis, 2044.

Curtis, R. M. See **Gordon, B. E.**, 4028.

Curtius, H.-C., Voellmin, J. A., and **Mueller, M.** Determination of the mutarotation of monosaccharides by gas chromatography: elucidation of different forms of fructose and sorbose by gas chromatography and by infra-red and mass spectrometry, 1313.

Cuttitta, F., and **Rose, H. J., jun.** Micro X-ray fluorescence spectroscopy: selected geochemical applications, 1314. Slope-ratio technique for the determination of trace elements by X-ray spectrometry, 3188.

— See also **Rose, H. J., jun.**, 1310, 1314.

Cuypers, J. See **Cuypers, M.**, 696.

Cuypers, M., and **Cuypers, J.** γ-Ray spectra and sensitivities for 14-MeV neutron-activation determination of 63 elements, 696.

Cvjeticanin, N. Synergism in the reversed-phase partition chromatography of americium, cerium and lanthanum, 1385.

Czakow, J. Application of polished electrodes in the graphite spark method for spectrographic analysis of solutions, 1268.

Czech, F. P. Analysis for halogenated organic insecticides in aqueous animal dips by using sodium biphenyl, 1804.

Czechowicz, D. See **Janik, A.**, 3588.

Czegledi-Janko, G., and **Cieleszky, V.** One-step extraction and clean-up procedure before GLC determination of organochlorine pesticides in blood, 2894.

D

Dabbous, M. Kh., and **Draus, F. J.** Acrylamide gel electrophoresis of purified submaxillary mucins, 1618.

Dabhade, S. B., and **Sangal, S. P.** Metal chelates of Eriochrome black T in aqueous solutions, 1957.

Dabrowska, A. See **Krol, Z.**, 2204.

Dagnall, R. M., Pribil, R., jun., and **West, T. S.** Preparation of microwave-excited electrodeless discharge tubes for titanium, vanadium and zirconium for use as spectral-line sources in atomic-absorption or atomic-fluorescence spectrophotometry, 1896.

— **Thompson, K. C.,** and **West, T. S.** Nitrous oxide - hydrogen flame in spectroscopic analysis, 640. Thermal and atomic-fluorescence emission of germanium in a nitrogen - oxygen - acetylene flame, 2672. Studies in atomic-fluorescence spectroscopy. VII. Fluorescence and analytical characteristics of arsenic, with a microwave-excited electrodeless-discharge tube as source, 2690. Molecular-emission spectroscopy in cool flames. III. Emission characteristics of tin in diffusion flames, 3386.

— and **West, T. S.** Applications of microwave-excited electrodeless discharge tubes in atomic spectrophotometry, 3206.

— See also **Aldous, K. M.**, 1894.

Dahl, I. Application of salicylaldoxime in solvent extraction of metals, 700.

Daigne, B., and **Girard, F.** Electron-bombardment analysis of alloys during production in a furnace, 3280.

Dal Cortivo, L. A. See **Broich, J. R.,** 458.

Dale, G., and **Latner, A. L.** Isoelectric focusing in polyacrylamide gels, 1070.

Dale, L. S. Direct-reading spectrometer for determination of beryllium in site liquid effluent, 580.

Dalen, E. van. See **IJsseling, F. P.,** 666.

D'Alessio de Carnevale Bonino, R. C. See **Carnevale Bonino, R. C. d'A. de.**

Dalgarno, G. See **Rowntree and Co. Ltd.,** 718, 719.

Dallam, R. D. See **Hagan, J. J.,** 452.

Dalmassy, B. C. de. See **Chavane de Dalmassy, B.**

Dal Nogare, S. See **Juvet, R. S., jun.,** 677.

Daly, J. W. See **Creveling, C. R.,** 1597.

Daly, N. R. See **Tyrrell, A. C.,** 1912.

Dalziel, J. A. W., and **Slawinski, A. K.** Simultaneous spectrophotometric determination of cobalt and nickel with quinoxaline-2,3-dithiol, 868.

Dambacher, M., Gubler, A., and **Haas, H. G.** Determination of nitrogen in biological material, 2871.

Damian, M. See **Armeanu, V.,** 1353.

Damico, J. N. See **Benson, W. R.,** 557.

Damien, N., and **Cauchetier, P.** Determination of free acidity in concentrated aqueous solutions of plutonium^{IV}, 2659.

Dams, R., and **Hoste, J.** Neutron-activation analysis of impurities in electrolytic zinc sulphate solutions. II. Determination of molybdenum and rhenium, 1364; III. Simultaneous determination of tellurium, selenium, arsenic and antimony, 1364.
— See also **Ballaux, C.,** 831.

D'Andrea, N., and **Roehr, E. E.** Modified Natelson micro-gasometric technique for determining blood oxygen, 3615.

Daneholt, B., Ringborg, U., Egyhazy, E., and **Lambert, B.** Micro-electrophoretic fractionation of RNA, 1088.

Danes, E. J., Pascual Calveras, J. O. Comparison of 4-(4-methoxy-1-nꜰphtylazo)benzoic acid with other arylazobenxoic acids as ecteriffication agent in separation of alchohols by adsorption chromatography, 2159.

Daneyrolle, C. Gas analysis with a gas-density detector, 712.

Danh, T. V. See **Tran Van Danh.**

Danilova, V. N. See **Babko, A. K.,** 67, 755.

Dantsig, G. A., Aseev, V. I., Kondrashchenko, T. A., and **Krutina, S. A.** Calculation of retention time with different variants of temperature-programming in gas-adsorption chromatography, 1257.

D'Arrigo, V. See **Ciusa, W.,** 1173.

Das, D. N., and **Toennies, G.** Versatile buffered scintillation system for determination of pantothenate in bacterial cultures, 672.
— See also **Toennies, G.,** 1584.

Das, H. A., Raaphorst, J. G. van, Menger, J. W., and **Galesloot, T. E.** Determination of manganese in dairy products, 1.

Das, P. C. See **Moza, B. K.,** 3782.

Das Gupta, H. N., and **Mitra, N. K.** Determination of iron^{II} in silicates or glass, 110.

Das Gupta, S. See **Sinha, B. C.,** 2066.

Das Gupta, V., Cadwallader, D. E., Herman, H. B., and **Honigberg, I. L.** Effect of pH and dye concentration on the extraction of a thiamine - dye complex by an organic solvent, 2367.

Dashkevich, E. V. Determination of the composition of non-metallic inclusions in sheet steel deoxidised with ferro-cerium, 3453.

Da Silva Cavaleiro, J. A. See **Cavaleiro, J. A. da S.**

Datta, C., and **Mukherjee, S. K.** Electrometric titrations of fulvic acids from soil humus, 3840.

Datta, P. R. See **Nelson, M. J.,** 548.

David, B. See **Tataru, S.,** 785.

David, D. J., and **Staley, H. B.** Analytical chemistry of the polyurethanes. Part 3, *Book*: Sept.

Davidow, B. See **Searle, B. G.,** 2936.

Davidsen, O. Fixation of proteins after agarose ge electrophoresis by means of picric acid, 3712.

Davidson, A. W. Determination of chloral hydrate in drugs, 1697.

Davidson, R. J. See **Cooper, D. R.,** 1621.

Davies, C. F. See **Bowes, J. H.,** 346.

Davies, C. N. Entry of aerosols into sampling tube and heads, 3858.

Davies, D. R. A. See **Castledine, S. A.,** 3020.

Davies, I. J. T., Musa, M., and **Dormandy, T. L** Determination of zinc in plasma by atomi absorption, 2273.

Davies, J. R., and **Thuraisingham, S. T.** Detectio and estimation of pentachlorophenol in natura latex by TLC, 1523. Quantitative determinatio of free elementary sulphur in rubber vulcanisate by TLC 3602.

Davies, J. T., and **Denham, B. H.** Determination antistatic additives in polyethylene by GLC, 151

Davies, M. G. Application of amino-acid analysi to food research, 1309.

Davies, M. W., and **Shields, R.** Infra-red spectro photometric determination of polyoxyethylen glycol 4000 in biological material, 2891.

Davis, C. M., Burke, K. E., and **Yanak, M. M** X-ray spectrographic analysis of trace impuritie in metals by pre-concentration techniques, 131

Davis, E. A. See **Cherin, P.,** 633.

Davis, H. J. Gas-chromatographic determination benzo[*a*]pyrene in cigarette smoke, 3652.

Davis, I. J. See **Brown, P. E.,** 675.

Davis, J. B. Detection of the *N*-methyl group b NMR spectrometry, 3493.

Davis, Richard E. Preparation of particle-fre solutions for automated haematology, 3920.

Davis, Robert E. See **Steere, R. L.,** 626.

Davis, S. S. See **Shotton, E.,** 3258.

Davis, W., jun., Schonfeld, E., and **Kibbey, A.** Determination of urinary constituents in solution by least-squares resolution of u.v. spectra, 1529.

Daweke, H. See **Hoffmann, H. H.,** 2902.

Dawson, J. B., Ellis, D. J., and **Newton-John,** Direct determination of copper in serum an urine by atomic-absorption spectroscopy, 2858.
— See also **Stupar, J.,** 3210.

Day, G. T., Serin, P. A., and **Heykoop, K.** Mixe carrier for spectrographic determination impurities in high-purity uranium oxides, 787.

Dayal, P. See **Anand, K. S.,** 3567.

Daybell, M. D. See **Steyert, W. A.,** 1311.

Deacon, B. D. Modified determination of gossyp pigments. II. Determination of free gossyp in low-gossypol cottonseed meals and of gossyp in oils, 1790.

Deadman, P. See **Burns, D. T.,** 840.

Deak, F. J. See **Svenska Sockerfabriks Aktiebolag** 3883.

De Amorim, H. V. See **Amorim, H. V. de.**

Dean, J. A. Determination of molecular structu of urinary constituents of low molecular weig by NMR, 1530.
— and **Morrow, R. W.** Flame-emission spectr photometric determination of rhenium in moly denite flue-dust, 2715.
— and **Raines, T. C.** Flame-emission and atom absorption spectrometry. Vol. I. Theor *Book*: Nov.
— See also **Syty, A.,** 3404.

Dean, J. R., and **Harris, W. E.** Theoretical-slo method of end-point detection in amperometric photometric titrations, 3242.

ns, D. R. Accurate quantitative gas-chromato-
raphic analysis. I. Calculation of results, 3176.
ackere, M., and **Laruelle, L.** Detection and
dentification of alkaloids or alkaloid-like sub-
tances in equine blood or saliva, 2882.
Barros Correa, D. See **Correa, D. de B.**
onath, B. See **Nath, R. L.**, 362.
Boeck, R. See **Boeck, R. de.**
oras-Guedon, J. Atomic-absorption spectro-
hotometric study of silicates, 2670.
Bruin, M. See **Bruin, M. de.**
bska, B. See **Skorko-Trybula, Z.**, 2567.
Carneri, I. See **Carneri, I. de.**
Carnevale Bonino, R. C. d'A. See **Carnevale**
Bonino, R. C. d'A. de.
CHEMA. Physikalisch-chemische Methoden der
Korrosionspruefing, *Book*: Oct.
Choudens, C. See **Choudens, C. de.**
Clerck, J. See **Clerck, J. de.**
Corte, F. See **Corte, F. de.**
Dalmassy, B. C. See **Chavane de Dalmassy,B.**
dkov, Yu. M. See **Akmaeva, N. L.**, 88, **Bogdanova,**
V. I., 1990, and **Salikhov, V. D.**, 3352.
er, J., Ridgway, K., and **Rupp, R.** Photo-
sensitive transformer bridge for analysis of
powder mixtures, 4018.
Fabrizio, F. Spectrophotometric determination
of paracetamol, phenylephrine hydrochloride,
codeine phosphate and mepyramine maleate in
tablets or powder, 1134.
Filippi, J. See **Fabianek, J.**, 1647.
Freitas, J. F. See **Freitas, J. F. de.**
Galarza, M. G. S. See **Sanchez de Galarza, M. G.**
Garilhe, M. P. See **Privat de Garilhe, M.**
gen, I. A. Detection of the methoxy-group by
i.r. spectroscopy, 2149.
Goeij, J. J. M. See **Goeij, J. J. M. de.**
gtyarenko, L. I. See **Shevchuk, I. A.**, 3563.
gtyareva, O. F., and **Ostrovskaya, M. F.** Spectro-
graphic analysis of amorphous high-purity boron,
759.
and **Sinitsyna, L. G.** Spectrographic analysis of
high-purity thorium and thorium compounds, 95.
Guglielmone, A. E. R. See **Guglielmone, A. E. R. de.**
Hackbeil, K. F. See **Hackbeil, K. F. de.**
ibner, L. Separation of paeonin and malvin by
paper and cellulose TLC, 1771.
ich, R. P. See **Levitman, Kh. Ya.**, 196.
ichman, W. B., and **Gerarde, H. W.** Toxicology
of drugs and chemicals. Fourth Edn, *Book*: Nov.
jou, J. See **Guyot, J.**, 1946.
la Cruz Castillo, F. See **Cruz Castillo, F. de la.**
la Gueriviere, J. F. See **Gueriviere, J. F. de la.**
laporte, N., and **Macheix, J. J.** Spectrophoto-
metric determination of ascorbic acid, chlorogenic
acid and catechins in apples, 1162.
Larebeyrette, J. See **Larebeyrette, J. de.**
launois, A. L. See **Vochten, R. F. C.**, 472.
launois, C. Analysis of small volumes of gas by
GSC, 1834.
and **Bettens, B.** Analysis of the phenolic and
aromatic products of the thermal cracking of
phenols by GLC, 2829.
elbrueck, A. Isolation of mucopolysaccharides
from connective tissue of normal and cirrhotic
liver, 1313.
e Ligny, C. L. See **Ligny, C. L. de.**
ella Monica, E. S., Craig, J. C., jun., and **Calhoun,**
M. J. Error in determination of 5-hydroxy-
methyl-2-furaldehyde in processed milk, 511.
elong, A. See **Brhacek, L.**, 3313.
elori, P., and **Gillo, L.** Separation of proteins of
'Elapidae' snake venoms on polyacrylamide gel,
1619.

De Lourdes Freire, M. See **Freire, M. de L.**
Demarin, V. T. See **Rudnevskii, N. K.**, 2614.
Demay, D. Selection of conditions in u.v. spectroscopic measurements, 1899.
De Mayo, M. M. See **Mayo, M. M. de.**
Dement'eva, E. N., Drobinskaya, N. A., Ionova, L. V., Karpeiskii, M. Ya., and **Florent'ev, V. L.** 'Super-thin-layer' chromatography of pyridoxine and its derivatives, 1092.
Dement'eva, M. I. See **Prokopenko, N. A.**, 3502.
Demers, D. R., and **Ellis, D. W.** Interferences affecting the atomic fluorescence of calcium and magnesium, 1359.
Demetrescu, C. See **Teodorescu, N.**, 727.
Demetriou, J. A., Macias R., F. M., McArthur, M. J., and **Beattie, J. M.** Gel-filtration chromatography of fluorescent phenols and heterocyclic compounds including some hormones, 1599.
Demir, S. See **Amal, H.**, 3001.
Demisch, K. Determination of 17-oxosteroids in urine by TLC, 3676.
Demkin, A. M., and **Sinyakova, S. I.** Oscillopolarographic determination of nanogram amounts of rhenium after accumulation on a stationary mercury-drop electrode, 3442.
De Montety, E. See **Montety, E. de.**
Demopoulos, H. B. See **Duke, P. S.**, 394.
De Mourgues, L. See **Mourgues, L. de.**
Den Berg, A. J. van. See **Berg, A. J. van den.**
Den Boef, G. See **Boef, G. den.**
Denes, F., Asandei, N. N., and **Simionescu, C. I.** Composition and structure of the acrylonitrile - methacrylic acid - methyl methacrylate copolymer system, 330.
De Neve, R. See **Neve, R. de.**
Denham, B. H. See **Davies, J. T.**, 1515.
Den Hende, A. van. See **Hende, A. van den.**
Denic, M. Improved determination of amino-acid in the protein of individual maize kernels, 3832.
Denisov, E. P., and **Smirnov, L. A.** Effect of the X-ray tube window in the excitation of fluorescence of sodium, magnesium and aluminium, 1962.
Dennen, W. H. See **Blackburn, W. H.**, 2764.
Denney, R. C. Apparatus for the addition of solids to refluxing solutions without loss of solvent, 2448.
Den Os, M. See **Os, M. den.**
Den Winkel, P. van. See **Winkel, P. van den.**
De Oliveira, D. B. See **Borba de Oliveira, D.**
Department of Employment and Productivity [U.K.]. Detection of toxic substances in air. No. 6. Carbon disulphide vapour, 1195; No. 11. Aniline vapour, 3865.
Deptula, C., and **Moszynska, K.** Extraction of chromium^{VI} with trioctylamine and its spectrophotometric determination with 1,5-diphenylcarbazide, 834.
Derache, R. See **Mitjavila, S.**, 2909.
Der Borght, O. van. See **Borght, O. van der.**
Derevyanchenko, V. P., and **Zhubanov, B. A.** Spectrophotometric determination of dibenzylamine in *m*- or *p*-xylene-$\alpha\alpha'$-diamine, 283.
Der Heiden, D. A. van. See **Heiden, D. A. van der.**
Derkach, L. V. See **Polotebnova, N. A.**, 147.
Derko, V. I., and **Savchenkova, V. P.** Complexometric determination of zinc in the presence of other metal ions, 752.
Derlikowski, J., Narbutt-Mering, A. B., and **Weglowska, W.** Detection of decomposition products of some barbiturates containing unsaturated substituents, 1683.
Der Linden, J. G. M. van. See **Linden, J. G. M. van der.**
Derner, H. A. Semi-automated determination of fluoride in urine, 3618.

Deroo, D. See **Guitton, J.**, 2727.
Der Pol, E. W. van. See **Pol, E. W. van der.**
De Rudder, J. See **Rudder, J. de.**
Der Wal, B. van. See **Wal, B. van der.**
Der Walt, C. F. J. van. See **Walt, C. F. J. van der.**
Der Walt, S. J. van. See **Walt, S. J. van der.**
Der Wegen, T. P. A. van. See **Wegen, T. P. A. van der.**
Deryng, J., Strzelecka, H., Walewska, E., and **Malinowski, J.** Investigations of volatile oils of the Polish Pharmacopoeia. V. Comparison of the methods for determining alcohols in coriander oil, 3786.
— **Strzelecka, H., Walewska, E.,** and **Soroczynska, T.** Investigations of volatile oils of the Polish Pharmacopoeia. IV. Peppermint oil, 1150.
Derzhanski, A., and **Barbov, V.** Quantitative analysis based on nuclear magnetic resonance dispersion, 4010.
Derzhinskii, A. R. See **Rudenko, B. A.**, 2786.
Desai, M. N., and **Gandhi, M. H.** Analytical applications of 1-(2-pyridylazo)-2-naphthol, 1952. Spot test for detection of iron, 2105.
— See also **Gandhi, M. H.**, 856, 3444.
De Schaepdryver, A. F. See **Schaepdryver, A. F. de.**
Deschamps, N. See **Albert, P.**, 2702.
Desideri, P. G. See **Cozzi, D.**, 1958, 2454.
De Soete, D. See **Soete, D. de.**
De Sousa Lechner, M. C. See **Sousa Lechner, M. C. de.**
De Souza, T. L. C. See **Souza, T. L. C. de.**
De Stefanis, V. A., and **Ponte, J. G., jun.** Separation of sugars by TLC, 503.
Deswaef, R. Separation, identification and determination of polyphosphates. I. Sodium mono-, pyro- and tri-phosphates, 3407.
Detheve, J.-L. See **Blandenet, G.**, 3254.
Detkova, G. A. See **Lel'chuk, Yu. L.**, 116.
D'Eustachio, A. J. [Analytical reviews, 1968]—Biochemical analysis, 677.
Deutsch, S. Acid potassium iodide method for determining atmospheric oxidants, 560.
Deutsche Akademie der Wissenschaften zu Berlin. Improved temperature-controllable cells for spectroscopic examinations, 1289.
Deutscher Normenausschuss (DNA), Koln. English translations of German standards, *Book*: Oct.
Devai, A. See **Telegdy-Kovats, L.**, 2961.
Devaleriola, M., and **Nangniot, P.** Three polarographic determinations of lead in potable water, 3870.
De Valverde, J. S. See **Sardi de Valverde, J.**
Devani, M. B., Shishoo, C. J., and **Bhut, D. J.** Non-aqueous titration of theophylline combinations with acetous perchloric acid, 2355.
Deverse, F. T., Gipstein, E., and **Lesoine, L. G.** Identification of components in TLC separations by mass spectrometry, 1863.
Devlin, J. J., and **Waterbury, J. F.** Integrated area-ratio high-percentage spectrochemical analysis, 2495.
DeVoe, J. R., and **Spijkerman, J. J.** [Analytical reviews, 1968]—Mossbauer spectrometry, 677.
— See also **Nargolwalla, S. S.**, 825.
Devoto, G. Determination of lead in urine and blood by atomic-absorption spectrophotometry, 989. Indirect determination of phosphates in urine by atomic-absorption spectrophotometry, 990. Indirect determination of arsenic in urine by atomic-absorption spectrophotometry, 993.
De Vries, M. J. See **Vries, M. J. de.**
Devyatnin, V. A., and **Svetlaeva, V. M.** Chromatographic determination of impurities in isophytol, 3653.
De Wachter, R. See **Wachter, R. de.**
DeWeerdt, G. A. See **Barbier, F.**, 1709.
De Wet, W. J. See **Wet, W. J. de.**
De Wit, W. M. See **Wit, W. M. de.**
Dey, A. K. See **Agarwala, B. V.**, 132, **Dwivedi C. P.**, 2627, and **Saxena, K. K.**, 2131.
De Zeeuw, R. A. See **Zeeuw, R. A. de.**
Dharwadkar, S. R., and **Chandrasekharaiah, M. S** Volumetric determination of oxygen-to-uranium ratio in uranium oxides, 3373.
Dhumwad, R. K., Joshi, M. V., and **Patwardhan A. B.** Spectrographic analysis of plutonium fo twenty-two trace impurities by the d.c. ar method, 3376.
Dial, J. E., Gong, R. E., and **Fordemwalt, J. N** Thickness measurements of silicon dioxide film on silicon by i.r. absorption, 105.
Diamandescu, E. See **Armeanu, V.**, 854.
Diamond, I., and **Kennedy, E. P.** Sensitive radio chemical assay for choline acetyltransferase, 3729
Diaz Borges, J. M. See **Drujan, B. D.**, 1313.
Dibenedetto, G. See **Giovanniello, T. J.**, 2278.
Dicarlo, F. J. See **Crew, M. C.**, 3630.
Di Cerbo, M. See **Cerbo, M. di.**
Dichenskii, V. I. See **Zaitsev, P. M.**, 3891.
Dick, R. I. See **Gratteau, J. C.**, 3886.
Dickens, P., Koenig, P., Schmitz, K.-H., an **Jaensch, P.** Simultaneous determination c oxygen and nitrogen in steel by electric-an melting, 183.
Dickes, G. J., and **Nicholas, P. V.** Determination c organochlorine and organophosphorus insect cides in fruits and vegetables (sampled in 1967 3059.
Dickeson, J. E. See **Kinson, K.**, 859.
Di Dario, B. E. See **Feller, B.**, 3111.
Diehl, H. See **Baetz, A. L.**, 1503.
Diemair, W., Pfeilsticker, K., and **Hoelscher,** Analysis of plasticisers in plastics: TLC separatio of alcohols derived from ester plasticisers, 334.
— See also **Pfleiderer, G.**, 3616.
Diesse, M. See **Bontemps, R.**, 1131.
Dieterle, P., Wuelfert-Heldrich, C., Henner, J., an **Schwarz, K.** Spectrophotometric determinatio of non-esterified fatty acids in serum, 381.
Dietrich, C. P. See **Jaques, L. B.**, 1571.
Dietrich, K. See **Reinisch, G.**, 1509.
Dietrich, P. See **Falk, F.**, 607.
Dietz, R. N. Determination of nitric oxide an other gases by GSC on treated molecular sieve, 340
Diez Moreno, A. See **Warzanskyj, W.**, 3248.
Dimigen, E. See **Schreiber, G.**, 1313.
Dimitriades, B. Determination of nitrogen oxides automotive exhaust, 1818.
Dimitriu, A., and **Goldhaar, I.** Determination of t cross-sectional distribution of chemical elemen in ores and minerals by physico-chemical method 2138.
Dimitrov, Kh. See **Petsev, N.**, 1866.
Dimofte, L., Simionovici, R., Sterescu, M., and **Stefa V.** Chemical and GLC determination of u changed methylfuran and acetone in the synthes of 5-hydroxypentan-2-one, 2160.
— **Sterescu, M.,** and **Rizescu, I.** GLC determinati of 2-nitro-*m*-xylene obtained by nitration *m*-xylene, 927.
Dinescu, G. Determination of cytochrome *c* ammonium reineckate precipitation, 1651.
Dingley, R. G., and **Seward, R. J.** Method sizing imaged spheres, 1940.
Dinsel, D. L. See **Papa, L. J.**, 1817.
Dirheimer, G. See **Felter, S.**, 2689.
Dirscherl, A. Micro-determination of low chlori contents in organic compounds, 221.

tert, L. W. See **Swintosky, J. V.**, 1691.
tmann, J. TLC of carboxylic acids on cellulose, 579.
z, J. See **Neumann, J.**, 3265.
xon, C. W., Malone, C. T., and **Umbreit, G. R.** Preparative column-chromatographic isolation and concentration of trace components in natural products, 3580.
ordjevic, C., and **Tambina, B.** Mechanism of the spectrophotometric determination of niobium with thiocyanates, 3413.
bies, R. S. Determination of u.v. absorbers in paraffin wax by TLC, 2219.
bkina, B. M., Zubynina, K. B., Malyutina, T. M., and **Sazikova, G. B.** Difference photometric determination of tantalum with methyl violet, 140.
brecky, J., and **Garber, C.** Separation of phenothiazines by TLC, 1694.
Garber, C., and **Lombardi, N. M.** TLC of some oxosteroids used in anti-inflammatory preparations, 1142.
See also **Lombardi, N. M.**, 1117.
bres, H. L., and **Moats, W. A.** Qualitative TLC of common dyes used in biological staining, 347.
brolyubskaya, T. S., and **Anikina, L. I.** Direct fluorimetric determination of uranium^{VI} in tributyl phosphate - Sintin medium, 784.
brucki, R. See **Adamski, R.**, 478.
brushina, G. D. See **Belyavskaya, T. A.**, 119.
bychin, S. L. See **Pimkin, V. G.**, 2801.
dd, D. M. See **Ballman, A. A.**, 4003.
dge, J. T. See **Phillips, G. B.**, 380.
dica, C. See **Ilca, S.**, 1313.
donov, A. M. See **Shostenko, A. G.**, 2785.
ege, H.-G., and **Grosse-Ruyken, H.** Separation procedure for determination of impurities in molybdenum and tungsten by activation analysis, 3429.
See also **Kucharkowski, R.**, 2748.
gadkin, N. N. See **Alimarin, I. P.**, 1374.
hnalova, B. See **Ceskoslovenska Akademie Ved**, 3993.
kladalova, J., and **Konecna, A.** Determination of aldehydes in the presence of alcohols by the Schiff reaction, 2795.
and **Stankova, O.** Determination of formaldehyde with use of combined sulphur dioxide, 246.
kuchaeva, M. T. See **Negina, V. R.**, 327.
lezal, J., and **Guertler, O.** Application of complex formation in inorganic polarography. XIII. Polarographic behaviour of manganese - mannitol complexes, 165.
and **Stulik, K.** Use of platinum and carbon indicator-electrodes in acid - base titrations, 1321.
See also **Tvrzicka, E.**, 4022.
linar, J., Jernejcic, M., and **Premru, L.** Pyrolysis - GLC analysis of industrial rubber compositions, 343.
manski, T. J. See **Goldbaum, L. R.**, 2701.
manskii, A. N. See **Barenboim, G. M.**, *Book*: Nov.
menech, E. M. See **Mendez Domenech, E.**
meracki, S. See **Pawelczyk, E.**, 3780.
mka, F. See **Krause, A.**, 43, 3316.
nald, A. S. R. Separation of glucosamine and galactosamine and their glycitols on an amino-acid analyser, 1568.
ndi, F. See **Bighi, C.**, 892, and **Saglietto, G.**, 2461.
nelson, J. R., and **Yamazaki, W. T.** Enzymic determination of starch in wheat fractions, 506.
nner-Maack, R., and **Lueck, H.** Polarography of peroxides in the zero-volt range. I. Oscillopolarograms of diacyl peroxides, 1775.
Donoso N., G., Santa Ana V., M. A., and **Chadwick W., I.** Oscillopolarographic determination of uranium and thorium in supporting electrolytes containing cupferron, 2650.
Doolittle, F. G. See **Archer, V. S.**, 3347.
Dorko, W. D. See **Hughes, E. E.**, 808, 1815.
Dormandy, T. L. See **Davies, I. J. T.**, 2273.
Dorsey, G. A., jun. Far-i.r. absorption of hydrous and anhydrous aluminas, 1365.
Dosch, R. G. Determination of perchlorate by precipitation with tetrapentylammonium bromide, 849.
Doss, M., and **Bode, U.** TLC separation of porphyrins, haemin and lipids and determination of the erythrocyte porphyrins as their methyl esters, 2949.
— and **Oette, K.** Alkali-catalysed trans-esterification for gas-chromatographic analysis of fatty acid methyl esters from lipids, 1313.
Dostal, P., Cermak, J., and **Kartous, J.** Photometric determination of heavy-metal cations, derived from hardening catalysts, in silicone resins by means of piperidinium pentamethylenedithiocarbamate, 2253.
Doty, A. E. See **Getzendaner, M. E.**, 1166.
Dow Chemical Co. Method and apparatus for determining the inorganic carbon content of liquids, 3885. Method and apparatus for gel-permeation chromatography, 3926.
Dowling, J. T. See **Razevska, D.**, 2329.
Downing, D. T., and **Greene, R. S.** Methylation of fatty acids by pyrolysis of their tetramethylammonium salts in the gas chromatograph, 901.
Doyle, T. B. See **Groth, R. H.**, 605.
Drabner, J., and **Schwerd, W.** Detection of phenelzine, nialamide and isocarboxazide in urine, 1313.
Dragoi, A. See **Kekedy, L.**, 1308.
Dragulescu, C., and **Pirlea, M.** Photochronometric determination of iron^{III}, 2106.
Dranitskaya, R. M., and **Frum, E. I.** Determination of molybdenum in soil with *o*-nitrophenylfluorone, 3095.
Drapier, A.-M. See **Munier, R. L.**, 422.
Draus, F. J. See **Dabbous, M. Kh.**, 1618.
Dravnieks, A., and **Krotoszynski, B. K.** Collection and processing of air-borne chemical information. II, 559.
Drawert, F. Gas-chromatographic methods adapted to aroma research and bromatology, 1770.
Drechsler, W. See **Adler, P.**, 564.
Drelina, O. A. See **Sokolovich, V. B.**, 117.
Drennan, G. A., and **Matula, R. A.** Separation of carbonyl fluoride and carbon dioxide by GSC, 103.
Dreskin, S. A., and **Langone, J. A.** Device for the elimination of secondary internal reflections in glass-backed photographic plates, 3184.
Dressler, M. See **Janak, J.**, 615.
Dreumel, H. J. van. See **Holtz, A.**, 1628.
Dreux, C., and **Halter, D.** Spectrofluorimetric determination of 5-hydroxytryptamine in urine, 1051.
Drews, B., Baerwald, G., and **Niefind, H.-J.** Determination of volatile substances in beer by GLC, 1762. Determination of biacetyl and pentane-2,3-dione in beer by GLC, 1764.
Drexlerova, J. See **Bieber, B.**, 2018.
Dreyer, I., and **Meyer, D.** Determination of iodine-131 in urine, 2879.
Driscoll, J. L., and **Evans, P. E.** Determination of uranium dioxide in uranium phosphides, 2040.
Drobinskaya, N. A. See **Dement'eva, E. N.**, 1092.
Dronova, V. P. See **Shmonin, L. I.**, 2007.
Drozdova, S. N. Absorptiometric study of the complex of erbium with methylthymol blue, 779.

Drujan, B. D., Castillon, R., and **Guerrero, E.** Application of fluorimetry in the determination of vitamin A, 1090.

— and **Diaz Borges, J. M.** Application of fluorimetry in the determination of monoamine oxidase activity, 1313.

Druskina, E. Z. See **Shaposhnikov, Yu. K.,** 3584.

Drwiega, I. Use of nitron for gravimetric determination of rhenium in hydrometallurgical products of copper processing, 736. Potentiometric determination of rhenium in the products of copper metallurgy, 737.

Dryakhlov, A. I. Effect of the material of the counter-electrode in the concentration dependence of the line intensity of a copper - nickel alloy in a spark, 1960.

— **Zelinskii, M. S.,** and **Rudnevskii, N. K.** Influence of the material of the support-electrode on the line intensity in the spectrographic analysis of alloys, 1959.

Dryhurst, G., and **Elving, P. J.** Analytical application of the polarographic reduction of oxaluric acid, 263.

— **Rosen, M.,** and **Elving, P. J.** Modular solid-state unit for electrochemical studies, 3238.

Dubansky, A. See **Ceskoslovenska Akademie Ved,** 1223.

Dubin, A. See **Berman, E.,** 360.

Dubois, J., Colard, J., and **Vis, H. L.** Neutron activation for studying hydroelectrolytic disorders in child pathology, 1.

DuBois, R. J. See **Baczuk, R. J.,** 850.

Dubovik, K. V., and **Pavlyuchenko, M. M.** Dependence of the intensity of the spectrographic lines of trace elements on matrix composition in silica - alkaline-earth-metal oxide systems, 3290.

Dubrovina, I. M., Zharkova, D. N., and **Yakovleva, E. F.** Phase analysis of ferritic steel strengthened by intermetallic phases of Laves type, 3454.

Dubur, G. Ya., and **Vanag, G. Ya.** Dibepin 2 as colour reagent for primary aliphatic amines, 908.

Ducay, E. D. See **Potter, A. L.,** 3046.

Duchesne, J. C. See **Roelandts, I.,** 107.

Dudzik, Z. See **Podczasha, Z.,** 496.

Duffy, T. E., and **O'Neill, J. J.** Enzymic 'sweep' technique for chromatographic resolution of carbon-14-labelled brain metabolites, 3644.

Dugain, F., Castre, C., and **Beyssier, B.** Analysis of chromium by gamma-ray spectrometry after separation of the radio-elements on ion-exchange resins, 2711.

Duke, P. S., and **Demopoulos, H. B.** One-dimensional paper-chromatographic determination of urinary homovanillic acid, 394.

Dulamita, N. TLC in inorganic chemistry: review, 597.

— See also **Liteanu, C.,** 1053.

Dulcie, W. L., and **Jones, T. P.** Detection of breath-alcohol, 3631.

Duluta, V. See **Ionescu Nipal, F.,** 1201.

Dumartin, S. See **Centre National de la Recherche Scientifique,** 1273.

Dumitreanu, A. See **Ciuhandu, G.,** 902.

Dumora, F. See **Croizet, M.,** 2931.

Dunlap, W. J. See **Wilson, J. L.,** 2908, and **Winkler, B. C.,** 3651.

Dunnery, D. A., and **Atwood, G. R.** Phase titration with clarification end-point for analysis of acetone - isobutyl methyl ketone mixtures, 3511.

Dunstan, R. J. See **Parodi, P. W.,** 537.

Dunton, P. J. Determination of total bromine in brines by X-ray fluorescence, 1213.

Duperray, B. Analysis of a mixture of bile acids by GLC, 1043.

Duperrex, M. See **Tanner, H.,** 3042, 3043.

Dupiers, M. See **Paquot, C.,** 338.

Du Plessis, C. S. See **Plessis, C. S. du.**

Du Pont de Nemours, E. I., and Co. Test cell for electro-thermal analysis, 3255.

Du Pont de Nemours International S.A. Identification of thermoplastics, 333.

Dupuis, T. Analytical study of 'pinks' and the metastannates of bivalent metals, 2054.

Duran Lopez, A. Determination of oxides of nitrogen in the effluent gases from manufacture of nitric acid, 809.

Durek-Kluczykowska, B., and **Krowczynski, L.** Effect of surfactants on the extraction of alkaloids from drugs. I, 1109; II. Effect of surfactants on the solubility of alkaloids, 1109.

Durig, J. R., Bush, S. F., and **Baglin, F. G.** Low-temperature far-i.r. transmission properties o polycrystalline and single-crystal silicon, 2511.

— and **Hellams, K. L.** Low-frequency i.r. vibrations of some organotrichlorosilanes, 2183.

Durst, R. A. Micro-determination of fluoride by linear null-point potentiometry, 1410.

— **May, E. L.,** and **Taylor, J. K.** Micro-determination of silver by linear null-point potentiometry 1351.

— and **Ross, J. W., jun.** Electrochemical generation of fluoride ion by solid-state transference, 2723

Dutkiewicz, T., and **Blochowicz, A.** Colorimetri determination of styrene in the air, 1202.

— and **Konczalik, J.** Analytical procedure fo cases of barbiturate poisoning. I. Determinatio of barbiturates in blood, 2887; II. Identificatio and determination of barbiturates in urine, 362

Dutt, N. K., Sanyal, G. S., and **Nag, K.** Use c quinoxaline-2-carboxylic acid and its derivative as analytical reagents, 1326.

Dutta, J. See **Bhattacharya, A. G.,** 322.

Dutta, S. K. See **Chakraborty, M.,** 480.

Dutton, G. G. S., Gibney, K. B., Jensen, G. D., an **Reid, P. E.** Simultaneous determination c periodate-oxidised polysaccharides by GLC, 350

— and **Unrau, A. M.** Separation of the glycerol an erythritol glycosides of a synthetic 'polymaltos by GLC, 3509.

Duty, R. C. Evaluation of gradient-loaded pr parative GLC columns, 1246.

Duyckaerts, G. See **Caligara, F.,** 100, and **Mercin E.,** 3362.

Dvinyaninov, B. L. See **Podchainova, V. N.,** 70.

Dvorkin, V. Ya., and **Shmelev, A. A.** Solubility the tissue phospholipids from rat liver and brai in acetone, 2912.

Dwivedi, C. D., and **Dey, A. K.** Photometric dete mination of tervalent gallium, indium or thalliu with xylenol orange, 2627.

Dyatlova, N. M. See **Temkina, V. Ya.,** 833.

Dyatlovitskaya, F. G., and **Maktaz, E. D.** Dete mination of caprolactam in aqueous effluents b TLC, 3892.

Dybczynski, R. See **Chwastowska, J.,** 3478.

Dyer, T. A. See **Leech, R. M.,** 1643.

Dyk Tu, N. See **Nguyen Dyk Tu.**

Dymond, B. Automated elution chromatograph of amino-acids, 1846.

Dymov, A. M. See **Gromakova, Z. I.,** 734.

Dzhiyanbaeva, R. Kh. See **Kamaeva, G.,** 52, 72 **Mansurkhodzhaev, U.,** 2692, **Sharipova, Sh. T** 2006, and **Shesterova, I. P.,** 187.

Dziomko, V. M., Zelichenok, S. L., and **Markovic I. S.** Reagent for photometric determination small amounts of lithium, 1977.

Dziunikowski, B. Radiometric determination major components of ores, 2765.

E

ins, J. D., and **Gomm, P. J.** Determination of ross alpha-activity in urine by adsorption on lass-fibre filter-paper, 2868.
and **Knight, S.** Programme for plutonium-239 rine sampling and analysis, 2274.
Lally, A. E., Morgan, A., and **Sandalls, F. J.** nalytical procedures used by the bio-assay ection at A.E.R.E., Harwell, 979.
See also **Gomm, P. J.**, 987.
gle, D. H., jun. [Analytical reviews, 1968]—lectron paramagnetic resonance, 677.
land, C., and **Ramsden, D. B.** Use of sucrose olutions in electrofocusing separation of proteins, 711.
stman Kodak Co. Developing tank for TLC, 1858.
on, D. L. See **MacDonell, H. L.**, 3950.
on, W. S. See **King, D. M.**, 269.
el, J. P. See **Felter, S.**, 2689.
el, S. Conductimetric and oscillometric deter- minations of alkaloids with sodium tetraphenyl- orate, 1111. Direct conductimetric determina- ion of carbonyl compounds by the oxime method, 809.
Holtz, H., and **Lerche, H.** Determination of arbituric acids in mixtures after preparative LC separation, 2371.
eling, M. E. Dumas determination of nitrogen n feeding-stuffs, 3106.
eling, R. See **Trier, K.**, 356.
ell, L. F. See **Myhre, B. O.**, 3134.
en, A. See **Pitz, W.**, 2345.
erhagen, D., Wittmann, B., and **Seitz, W.** Radio- metric - gas-chromatographic study of fatty acid nixtures, 1878.
erhard, R. See **Petek, F.**, 3640.
kert, J. See **Arret, B.**, 1674.
kert, W. R. Determination of aromatic fatty cids in hydrogenated cyclic fatty acids, 2195. Characterisation of lower primary amines by the r. spectra of their 2,4-dinitrophenyl derivatives, 3524.
en, C., and **Margoninski, Y.** Transistorised detector for GLC, 2464.
er, W. R. See **Bloomer, J. L.**, 1860, 3963.
wards, M. J. See **Beynon, K. I.**, 2427.
wards, R. W. H. See **Trafford, D. J. H.**, 2914.
an, B. Z. Selectivity of polyacrylamide and dextran gels for simple cations and anions, 1330.
an, W. D., and **Achey, F. A.** X-ray fluorescence analysis of a manganese ore, 1310.
erova, V. A. See **Vainshtein, E. E.**, 3285.
ger, H. Mass spectrometry of bile acid deriva- tives, 2924.
li, R. H. See **Thier, H.-P.**, 3065.
linton, G. See **Henderson, W.**, 2827.
lite, G. K., and **Oshkaya, V. P.** Use of *N*-hydroxy- phthalimide for the colour development in paper chromatography of amino-acids, 2319.
orova, L. A. See **Novikov, A. I.**, 2623, and **Songina, O. A.**, 2737.
yhazy, E. See **Daneholt, B.**, 1088.
san, A. See **Hashmi, M. H.**, 1426.
b, N. K. See **Martin, G. E.**, 3078.
chler, J. See **Jacobi, W.**, 4039.
dus, Ya. T., Pirozhkov, S. D., and **Puzitskii, K. V** Determination of branched-chain alkanoic acids and their isobutyl esters by GLC, 256.
gen, E. See **Parekh, C. K.**, 1538.
sel, R. See **Judson, G.**, 590.
seman, W. See **Forman, D. T.**, 1596.
senberg, W. V. See **Brickey, P. M., jun.**, 3010, and **Stein, R.**, 1717.
El-Barbary, I. See **Khalifa, H.**, 32.
Elbeih, I. I. M., and **Abou-Elnaga, M. A.** Colorimetric determination of vanadium with 5,7-dibromo-8-hydroxyquinoline after paper-chromatographic separation from interfering ions, 823. Colorimetric determination of molybdenum with 5,7-dibromo-8-hydroxyquinoline, 838.
Elbert, W. C. See **Sawicki, E.**, 3507.
Elbowicz-Waniewska, Z. Comparison of determinations of calcium in pharmaceutical preparations and biological fluids, 1107.
Elchuk, S. See **Mislan, J. P.**, 3995.
Elder, G. H. Interference of nalidixic acid in determination of 4-hydroxy-3-methoxymandelic acid in urine, 393.
Eldjarn, L. Control solutions in clinical chemistry, 1312.
Elefant, M. See **Talmage, J. M.**, 2393.
Elevitch, F. R. See **Phillips, R. E.**, 1563.
Elgar, K. See **Beynon, K. I.**, 2427.
Eliakis, C. E., Coutselinis, A. S., and **Eliakis, E. C.** Identification of organochlorine pesticides in blood and tissues by TLC, 2288.
Eliakis, E. C. See **Eliakis, C. E.**, 2288.
Eliseeva, L. M., Berenshtein, E. I., Aikhodzhaev, B. I., and **Pogosov, Yu. L.** Analysis of mixed esters of cellulose with acetic and higher fatty acids, 2835.
El-Keiy, M. A. See **Karawya, M. S.**, 3627.
Elkins, H. B. Exposure tests in industrial toxicology, 1947.
Ellenburg, E. J., and **McCown, J. J.** Carrier-free radiochemical determination of caesium-137, 3325.
Ellinger, G. M. See **Clarke, E. M. W.**, 1614.
Elliott, A. Photography of X-ray fibre diffraction patterns with a toroidal mirror, 632.
Elliott, W. H. See **Siegfried, C. M.**, 2313.
Ellis, D. J. See **Dawson, J. B.**, 2858.
Ellis, D. R., and **Heslop, R. B.** Analysis of monomeric alkyl- and aryl-chlorosilanes, 1463.
Ellis, D. W. See **Demers, D. R.**, 1359.
Ellis, Rex, Gaddis, A. M., Currie, G. T., and **Powell, S. L.** Carbonyls in oxidising fat. XII. Isolation of free aldehydes from autoxidised triolein, trilinolein and trilinolenin, 3822.
Ellis, Robert. See **Szymanski, H. A.**, 427.
Ellis, W. H. See **Bird, E. D.**, 1.
Ellison, M. Accurate dispensing of small volumes of volatile liquids with a micro-syringe and aluminium capillary tubes, 888. Device for delivering an approximately metered amount of a powdered catalyst mixture into a sample boat, 889.
Elly, C. T. Recovery of cyanides from natural water by modified Serfass distillation, 1823.
Elmore, D. T., and **Smyth, J. J.** Determination of the absolute molarity of solutions of trypsin and chymotrypsin by using 4-nitrophenyl 3-acetyl-2-benzylcarbazate, 1102.
El-Sirafy, A. A. See **Khalifa, H.**, 684, 2058.
Elving, P. J. See **Dryhurst, G.**, 263, 3238.
Embry, W. A., and **Ayres, G. H.** Spectrophotometric determination of ruthenium with 2,4,6-tri-(2-pyridyl)-1,3,5-triazine, 3472.
Emelin, E. A. See **Bulygin, B. M.**, 2243.
Emel'yanov, N. P., Bel'skaya, R. I., and **Taborisskaya, E. A.** TLC of cyclohexen-3-ol dehydrogenation products, 276.
Emel'yanova, I. A. See **Busev, A. I.**, 3263.
Emerson, D. E., Suttle, E. T., and **Hoffman, C. A.** Separation of neon from high-helium-content natural gases and from the atmosphere for isotopic analyses, 716.

Emmerson, J. D., and **Job, B. E.** Field-ionisation mass spectrometry with a modified MS 9 spectrometer, 2515.

Emsley, J. W., Feeny, J., and **Sutcliffe, L. H.** Progress in NMR spectroscopy. Vol. IV, *Book*: Oct.

Eneroth, P., Hellstrom, K., and **Sjovall, J.** Determination of bile acids in human faeces, 3681.

Engel, C. R., and **Sawicki, E.** Azulene procedure for chromatographic analysis of aromatic and heterocyclic aldehydes, carbohydrates and other aldehyde precursors, 2436.

— See also **Sawicki, E.,** 3507.

Engelhardt, H. See **Hesse, G.,** 3936.

England, E. A. M., Hornsby, J. B., Jones, W. T., and **Terrey, D. R.** Non-destructive determination of fluorine by neutron-activation analysis, 219.

Engler, R., and **Toelg, G.** Ultra-micro and trace analysis of organic substances. VIII. Determination of selenium in non-volatile organic compounds, 222.

Engst, R. See **Ackermann, H.,** 3811.

Eppert, G. Back-flushing in gas chromatography: review, 3166.

Epshtein, M. I. See **Belova, T. A.,** 2920.

Epstein, E., Houvras, Y., and **Zak, B.** Use of a pore-size concentration gradient in polyacrylamide electrophoresis, 1885.

Erastov, D. P. See **Nesterov, V. V.,** 3156.

Erdei, M., and **Gromov, B. V.** Extraction of lead and scandium by bis-(2-ethylhexyl) phosphate, 2676.

Erdey, L. Application of thermoanalytical methods in biochemical and clinical-chemical research, 1313.

— **Simon, J.,** and **Gal, S.** Thermoanalytical properties of analytical-grade reagents. V. Sodium halates, 3321.

— and **Svehla, G.** Calculation of indicator error in oxidation - reduction titrations, 9.

— See also **Gal, S.,** 3350, **Paulik, F.,** 762, and **Rokosz, A.,** 2532.

Erdody, P. See **Murray, T. K.,** 2990.

Eremenko, V. Ya. See **Nazarova, A. A.,** 1205.

Eremina, G. V. See **Gibalo, I. M.,** 137.

Ergun, S. See **Berman, M.,** 2141, 3482.

Eristavi, D. I., Brouchek, F. I., and **Macharashvili, T. G.** Use of anionites in the analytical chemistry of molybdenum, 2090.

— **Brouchek, F. I.,** and **Shatirishvili, I. Sh.** Use of anionites in the analytical chemistry of titanium. III, 3392.

Erley, D. S. Fast searching system for the ASTM i.r. data file, 1904.

Ermakova, L. I. See **Trakhtenberg, D. M.,** 3746.

Ermatov, A. See **Sadykov, A. S.,** 3772.

Ermolenko, I. N., and **Kamalyan, G. A.** Application of an ion-exchange procedure for determination of silver, 54.

Erney, D. R. Determination of chlorothymol by GLC, 3003.

Ernst, W. Determination of adenosine 5′-triphosphate with the luciferin - luciferase system and a liquid-scintillation counter, 1639.

Erofeev, B. V. See **Zhavnerko, K. A.,** 2796.

Eroglu, L. See **Guven, K. C.,** 1113.

Ershova, N. I., Bol'shova, T. A., and **Alimarin, I. P.** Extraction - chromatographic behaviour of iron^{III} in the system tributyl phosphate - hydrochloric acid and its salts: determination of iron in hydrochloric acid and aluminium chloride, 2097.

Eschrich, H., and **Hundere, I.** Separation of im purities from plutonium by extraction chromato graphy, 790.

— See also **Markl, P.,** 783, 810, and **Moeken H. H. P.,** 1384.

Esechko, A. M. See **Bil'tyukova, E. P.,** 3381.

Esposito, G. G. Determination of photochemicall reactive aromatic hydrocarbons in enamels an thinners, 2255.

Estifeev, M. M. See **Azhipa, L. T.,** 2645.

Etablissements Gailly Freres. Determination of th silicon content of a metal cast test-piece, 2668.

Ettre, L. S. Speed, efficiency and sample capacit of open-tubular GLC columns, 3948.

Eulenhoefer, H. G. Separation of dinitriles b TLC with special reference to the tautomeri forms of malonodinitrile: a simple identificatio reaction, 3521.

European Atomic Energy Community. Apparatu for development of TLC plates under controlle humidity conditions, 1239.

European Brewery Convention Analysis Committe Standardisation of analyses for evaluation hops, 1760, 3066. Evaluation of hop-extra preparations, 1761, 3067.

Evans, B. J. Magnetic hyperfine interactions i some spinel ferrites, 1311.

Evans, C. A., jun., and **Morrison, G. H.** Trac element survey analysis of biological materia by spark - source mass spectrometry, 1532.

Evans, C. C., and **Grimshaw, H. M.** Use of lanth num and sulphuric acid to suppress interferenc in the flame-photometric determination calcium in soil extracts, 1178.

Evans, G. B. See **Cundall, R. B.,** 639.

Evans, G. L. Selective glow-discharge detector f gas chromatography, 2466.

Evans, M. J. B. See **Nash, R. J.,** 2483.

Evans, P. E. See **Driscoll, J. L.,** 2040.

Evans, W. H. Determination of magnesium silicate and carbonate rocks by the Titan yell spectrophotometric method, 1358.

Evdakov, V. P. See **Arakelyan, V. G.,** 2187.

Evrard, E., and **Janssen, G.** Determination human faecal bile acids by GLC, 407.

— See also **Roovers, J.,** 408.

Evstaf'eva, I. P., Gorokhovskaya, A. S., an **Rustamov, Kh. R.** Amperometric determinati of 2-methylfuran, 2836.

Evstigneev, V. B., and **Prokhorova, L. I.** Dete mination of chlorophylls *a* and *b* in mixtu without separation of the components, 1077.

Ewan, R. C., Baumann, C. A., and **Pope, A.** Determination of selenium in biological materia 994.

Ewing, G. W. Instrumental methods of chemic analysis, *Book*: Sept.

— and **Young, M. G.** Spectrophotometric analy with photoconductive cells, 3217.

Exley, D. Ultra-micro determination of plas testosterone by GLC of testosterone dihept fluorobutyrate, 1039.

Eyrich, W. See **Frank, H. K.,** 3788.

Eyring, H., Christensen, C. J., and **Johnston, H.** Annual review of physical chemistry. Vol. X *Book*: Nov.

Ezawa, M. See **Chiaki, E.,** 2103, 2127.

F

Fabbi, B. P., and **Volborth, A.** Ultra-soft X-ra fluorescence determination of oxygen in igne rocks, 2700.

— See also **Volborth, A.,** 1310.

brini, R. See **Bazzi, B.**, 3854.
er, A. See **Heiden, D. A. van der**, 2318.
ianek, J., DeFilippi, J., Rickards, T., and **Herp, A.** Micro-determination of tocopherol in blood erum, 1647.
ry, J., and **Nangniot, P.** Oscillopolarographic determination of cobalt in vegetable material, 99.
cino, R. M. See **Maffei Facino, R.**
gan, A. W., and **Klein, H. M.** Rapid-loading Stallwood jet, 3195.
hr, E., and **Rohlfing, W.** Use of i.r. spectrophotometry in biochemistry and clinical chemistry, 1313.
in, B. S. See **Panina, L. A.**, 262.
ine, S., and **Knight, D. C.** Microbiological assay of antibiotics in body fluids, 3622.
irbairn, J. W., and **Relph, S. J.** Sources of error in quantitative paper and thin-layer chromatography. I. Production of the initial spots, 595.
kina, L. K. See **Vagina, N. S.**, 3364.
les, F. W. Recovery of uric acid from serum, 1629.
lk, F., and **Dietrich, P.** Polyglycerol and its ethers as stationary phases in GLC. I. Polyglycerol, 607; II. Cyanoethylated polyglycerol, 607.
lk, R. H. See **Bayfield, R. F.**, 3727.
ltaoos, B. N. See **Habashy, G. M.**, 890.
racci, R. See **Sunshine, I.**, 2889.
rago, F. See **Buzas, I.**, 996.
rcasan, M. See **Ionescu, M.**, 3544.
rina, A. See **Marzadro, M.**, 213.
rina, E., Mule, A., and **Piliu, G.** Extraction and recognition of minute amounts of tubocurarine chloride, alone or in the presence of other alkaloids, 367.
rley, L. L., and **Winkler, R. A.** Determination of trace amounts of sulphur in hydrocarbons by pyrolysis and hydrogenation, 1491.
rley, T. M. See **Nilsson, J. L. G.**, 2300, and **Redalieu, E.**, 1104.
rr, T. **Claeys, R. R.**, 1255.
rrar, Y. J. See **Florence, T. M.**, 2125.
rrelly, R. O., and **Watkins, W. B.** Screening for disorders of amino-acid metabolism by thin-layer high-voltage electrophoresis, 1605.
arre-Rius, F., and **Guiochon, G.** Conditions for flash pyrolysis of polymers as used in pyrolysis - gas chromatography, 1512.
arsirotu, V. See **Galatchi, G.**, 4034.
aucheux, L. J., jun. Clean-up for carbaryl by using channel-layer chromatography, 1812.
auvert, R. See **Mihaesco, E.**, 410.
avretto, L., and **Favretto Gabrielli, L.** Determination of caffeine in de-caffeinated coffee by non-aqueous titration, 529.
— See also **Calzolari, C.**, 3463.
avretto Gabrielli, L. See **Favretto, L.**, 529.
azio, T. See **Howard, J. W.**, 1727.
ebvre, P., and **Aiache, J. M.** Analysis of complex excipients for ointments and suppositories. I. TLC of glyceride-based excipients, 3008.
echner, G. See **Ackermann, H.**, 3811.
ecko, J., and **Przybylek-Piontek, W.** Paper-chromatographic separation and identification of components of drugs containing salicylamide, 483.
— and **Zaborniak, F.** Amperometric titration of methylthiouracil with mercuric chloride or chloramine T by using two polarised electrodes, 3007.
edeli, E. See **Casertano, F.**, 1580.
edorchuk, O. K. See **Karpel', N. G.**, 16.
Fedorova, L. A. See **Laskorin, B. N.**, 3973.
Fedorova, T. I. See **Yatsimirskii, K. B.**, 2569.
Fedoseeva, G. E., and **Khesina, A. Ya.** Use of quasilinear fluorescence spectra for determining polycyclic hydrocarbons, 3554.
Feeny, J. See **Emsley, J. W.**, *Book*: Oct., and **Varian Associates Ltd.**, 4011.
Feil, R. See **Moehrle, H.**, 925.
Feiner, L. A. See **Morrill, G. A.**, 1653.
Feinland, R. See **Paylor, R. A. L.**, 2254.
Feist, U., Heinze, G., and **Koennecke, H.-G.** Analysis of petroleum products. XII. 9,10-Dialkylphenanthrenes as model substances for analysis of lubricating oils, 3565.
Felberg, N., and **Schultz, J.** Myeloperoxidase. VII. Separation of oppositely charged proteins or sub-units by disc electrophoresis, 1652.
Feldman, F. J., Christian, G. D., and **Purdy, W. C.** Coulometric determination of chromium in biological materials, 2877.
— See also **Christian, G. D.**, 2523, and **Smith, S. B., jun.**, 3340.
Feldman, S., and **Gibaldi, M.** Recovery of phenol red from the gastro-intestinal tract, 2287.
Feldman, U. See **Yissum Research Development Co.**, 3976.
Feller, B., Boyde, W. A., Di Dario, B. E., and **Ferrari, A.** Use of continuous solvent evaporation in the automated determination of amprolium and ethopabate in feeding-stuffs, 3111.
Fellers, F. X. See **Ponchon, G.**, 1646.
Felter, S., Dirheimer, G., and **Ebel, J. P.** Fractionation of inorganic long-chain polyphosphates on Sephadex G-100, 2689.
Feng, F. See **Toennies, G.**, 1584.
Fenger, J. See **Larsen, E.**, 272, and **Siekierska, K. E.**, 2733.
Fenimore, D. C., Zlatkis, A., and **Wentworth, W. E.** Rectilinearisation of electron-capture-detector response by analogue conversion, 3962.
— See also **Price, J. G. W.**, 616.
Feoktistov, L. G., Lyalikov, Yu. S., and **Solonar', A. S.** Polarographic determination of octachlorocyclopentene and hexachlorocyclopentadiene in their mixtures, 2157.
— See also **Lyalikov, Yu. S.**, 550.
Ferguson, P. A. See **Perrin, C. H.**, 1787.
Fernandes, L. See **Plourde, J. R.**, 3762.
Fernandez, F., and **Manning, D. C.** Determination of lutetium and thulium by atomic-absorption spectroscopy, 2644.
Fernandez, T., Casassas, E., and **Garcia Montelongo, F.** Complexometric determination of metals by high-frequency titration in non-aqueous media, 707.
Fernandez-Flores, E., Johnson, A. R., and **Blomquist, V. H.** Collaborative study of a polarimetric method for determination of L-malic acid, 3048.
Fernandopulle, M. See **Ramakrishna, R. S.**, 681.
Ferrari, A. See **Feller, B.**, 3111.
Ferraro, J. R. Recent trends and developments in inorganic far-infra-red spectroscopy, 1292.
Ferren, W. P., and **Shane, N. A.** Difference spectrophotometric determination of caffeine in soluble coffee and in drug combinations, 1754.
Few, J. D., and **Forward, T. J.** Quantitative TLC of corticosteroids, 3680.
Fiandaca, A. See **Coscia, P. L.**, 2942.
Fiedler, H. Diacetone alcohol test as indicator for materials promoting decomposition in gas-chromatographic separating systems, 3163.
Field, K., and **Kent, B. E.** Determination of quebracho in mixtures with other tannin extracts and related materials, 975.

Figge, K. Use of adsorbent-filled papers as ready-prepared TLC plates, 1855.

Figueras Roca, F., Mourgues, L. de, and **Trambouze, Y.** Chromatographic measurement of hydrogen adsorption on supported metallic catalysis, 191.

Fijolka, P. See **Schulz, G.,** 2846.

Filatova, A. S. See **Plyusnin, V. G.,** 2146.

Filbert, A. M., and **Hair, M. L.** Glass beads as a gas-chromatographic support material. I, 612; II. Etched glass beads, 1249.

Filichkina, M. P., Kotieva, L. U., and **Khokhlacheva, N. M.** Determination of aluminium in alkaline aluminate solution by recording of titration curves, 766.

Filimonova, K. V. See **Becksheneva, N. M.,** 3592.

Filip, G. See **Tataru, S.,** 785.

Filippova, N. A., and **Korosteleva, V. A.** Phase analysis of metallurgical dusts for germanium compounds, 710.

Filonov, B. O., Proleskovskii, Yu. A., and **Pavlyuchenko, M. M.** Anomalous behaviour of the line of a trace element during evaporation of samples of the spinel-forming system magnesium oxide - chromium^{III} oxide in an arc source, 3293.

Findeis, A. F. See **King, W. H., jun.,** 3256.

Findl, E., and **Lui, K.** Pulsed gas chromatography, 602.

Fiorani, M. See **Magno, F.,** 1322.

Firestone, D. See **Higginbotham, G. R.,** 3114.

Firth, R. A., Hill, H. A. O., Pratt, J. M., and **Thorp, R. G.** Separation and identification of organo-cobalt derivatives of cyanocobalamin by TLC on cellulose, 2343.

Fischer, C., Muehl, P., and **Guenzler, G.** Extraction of molybdenum^{VI} from hydrochloric acid solution with aniline, 2714.

Fischer, D. See **Mankinen, C. B.,** 3931.

Fischer, D. W., and **Baun, W. L.** Influence of sample self-absorption on wavelength shifts and shape changes in the soft X-ray region: the rare-earth *M* series, 1310.

Fischer, H. A., and **Werner, G.** Instrumental arrangement for the histological and quantitative evaluation of autoradiograms, 1313.

Fischer, J. See **Slovak, Z.,** 3338.

Fischer, J. R. See **Chissick, S. S.,** 662.

Fischer, R. Identification and determination of organophosphorus insecticides in biological material. III, 2289.

Fischer, W. G. Pyrolysis - gas chromatography. IV, 3162.

Fischl, J., Pinto, N., and **Gordon, C.** Rapid detection of organophosphorus poisons in serum, 1557.

Fish, F., and **Kirk, W. R.** Two-dimensional TLC of polyphenols, 3757.

Fisher, B. S. See **Ragelis, E. F.,** 1752.

Fisher, N., and **Cooper, R. M.** Purification of organic solvents for use in fluorescence spectrometry, 2500.

Fisher, R. M., Lally, J. S., Bain, E. C., and **Greider, M. H.** [Analytical reviews, 1968]—Electron microscopy, 677.

Fishman, W. H. See **Inglis, N. R.,** 448.

Fitelson, J. Detection of adulteration in dark-coloured fruit juices, 3044.

Fitzgerald, J. M. See **Lukasiewicz, R. J.,** 1272.

Fitzgerald, R., Keil, K., and **Heinrich, K. F. J.** Solid-state energy-dispersion spectrometer for electron micro-probe X-ray analysis, 634.

Fiussello, N. See **Bellando, M.,** 1184.

Fjeldbo, W., and **Stamey, T. A.** Determination of inulin in serum and urine with an AutoAnalyzer, 3647.

Flaherty, B. See **Mesley, R. J.,** 1681.

Flanagan, D. D. See **Waters, R. M.,** 1865.

Flann, B. C., and **Bartlet, J. C.** Isolation of trace of lead from food, and concentration with stron tium sulphate, 1720.

Flaschka, H., Barnard, A. J., jun., and **Sturrock P. E.** Quantitative analytical chemistry. Vol. I Introduction to principles; Vol. II. Short intro duction to practice, *Books*: Nov.

— and **Garrett, J.** Sub-stoicheiometric masking I. General considerations and quantitativ treatment, 3260; II. Determination of traces cobalt in nickel salts and metallic nickel, 3465.

— See also **Schwarzenbach, G.,** *Book*: Nov.

Flath, H.-J., and **Kuehne, C.** Determination of th specific surface area of fibres by low-temperatur gas sorption, 2235.

Fleet, B., Kirkbright, G. F., and **Pickford, C.** Application of electroluminescence techniques t determination of aromatic hydrocarbons, 2817.

— **Soe-Win** and **West, T. S.** Visual complexometri titration of calcium in natural water, 567.

— See also **Belcher, R.,** 2773, and **Brand, M. J. D** 281, 664, 3526.

Fleischer, R. L. Determination of uranium distr bution in stony meteorites by the fission-trac technique, 3372.

Fleischmann, M., and **Hiddleston, J. N.** Palladium hydrogen probe-electrode for use as a micr reference-electrode, 2519.

Fleming, R. See **Aures, D.,** 414.

Flesch, G. D. See **Svec, H. J.,** 1909.

Flickinger, G. L., and **Touchstone, J. C.** TL separation of free oestrogens and their mono sulphate esters, 3675.

Flidlider, G. V., and **Kharchenko, L. V.** Colorimetr determination of micro amounts of phosphoru in nickel and its alloys with Brilliant green, 347

Flieger, A. See **Przeszlakowski, S.,** 3274.

Florean, E. See **Popper, E.,** 3289.

Florence, T. M., and **Farrar, Y. J.** Liquid - liqui extraction of nickel with long-chain amines fro aqueous and non-aqueous halide media, 2125.

Florent'ev, V. L. See **Dement'eva, E. N.,** 1092.

Floriani, R. See **Vogel, J.,** 316.

Flower, J. R. See **Wilburn, F. W.,** 1936.

Flyantikova, G. V. See **Nazarenko, V. A.,** 3.

Foa, P. P. See **Baginski, E. S.,** 435.

Fodor (nee **Csanyi**), **P.,** and **Szilagyi** (nee **Gyori**), **I** Interference due to phosphorescence and 'afte pulsing' in activity measurements of soft emitters, 2525.

Fog, H. M. Complexometric determination magnesium in manganese-containing aluminiu alloys, 761.

Fojtik, M., and **Koprda, V.** Use of organic solven in ion-exchange separations, 1881.

— See also **Koprda, V.,** 1408.

Fokin, A. V. See **Kirichenko, E. A.,** 3294.

Folch-Pi, J. See **Gonzalez-Sastre, F.,** 3669.

Foldzinska, A. See **Minczewski, J.,** 152.

Folkers, K. See **Nilsson, J. L. G.,** 2300, an **Redalieu, E.,** 1104.

Folsom, T. R., Sreekumaran, C., Weitz, W. E., jun and **Tennant, D. A.** Specialised flame photomet for determination of caesium in sea-water, 120

Fontan, J. See **Marenco, A.,** 563.

Fordemwalt, J. N. See **Dial, J. E.,** 105.

Forman, D. T., Phillips, C., Eiseman, W., and **Taylo C. B.** Fluorimetric measurement of faecal bi acids, 1596.

Formaro, L., and **Trasatti, S.** Capacitance measur ments on platinum electrodes for the estimati of organic impurities in water, 2441.

Forostyan, Yu. N., and **Novikov, V. I.** TLC *Anabasis aphylla* L. alkaloids, 2978.

rest, A. M. See **Chan, Y.-C.**, 4033.
ss, D. A. Rapid method for calculating per- entage recoveries of compounds from peak eights on gas chromatograms, 619.
ster, J. W. See **Langheinrich, A. P.**, 1310.
t, D. L. Determination of ratio of DDT to ,1-dichloro-2,2-bis-(*p*-chlorophenyl)ethylene in sh, 372.
tina, L., Maggiore, R., and **Toscano, G.** GLC nalysis of the products of oxidation of propene, 497.
tune, L. A. See **Polotebnova, N. A.**, 2833.
ward, T. J. See **Few, J. D.**, 3680.
brooke, A. S., and **Tamir, I.** Preparation of ethyl esters of a mixture of medium-chain and ong-chain fatty acids: application to determina- ion of serum triglyceride and non-esterified fatty cid composition and concentration by GLC, 2301.
ssel, E. T. See **Unimed Inc.**, 3714.
assin, A. See **Grosjean, M. H.**, 1151.
ada, M. F. See **Kiwan, A. M.**, 69.
ulds, J. M., and **Lunsford, J. V.** Analysis of the hemical oxygen demand method, 1215.
urcy, A. See **Breynat, G.**, 1, and **Neuburger, M.**, 518.
urnier, P. E. Poisoning by home products: chemical and biological methods of diagnosis, 1947.
uye, H. See **Girard, M. L.**, 3771.
x, B. W. Sample-preparation techniques for scintillation counting, 1929.
aenkel, B. Z. See **Yissum Research Development Co.**, 3976.
ahn, J. L., and **Mills, J. A.** Separation of basic amino-acids by paper electrophoresis, 2320.
aile S., E. See **Seeger S., B.**, 12.
anc, J., and **Ceeova, J.** Separation of organopolysiloxanes by paper chromatography, 2184.
Trtik, B., and **Placek, K.** Determination of very small amounts of nitrogen in organic substances by means of gas-chromatography reaction techniques, 3488.
ance, E. D. See **Walker, J. A. J.**, 1979.
ancis, F. J. See **Fuleki, T.**, 3804.
ancis, J. M., and **Jutson, J. A.** Application of thin-layer X-ray fluorescence analysis to oxide composition studies on stainless steel, 3455.
anconi, U. Rapid identification of propham in potatoes. I. Qualitative and quantitative determination by i.-r. spectrophotometry, 1796.
aney, R. J., and **Amador, E.** Serum cholesterol measurement based on ethanol extraction and reaction with ferric chloride and sulphuric acid, 3671.
ank, C. W. See **Berge, D. G.**, 2987, **Schrenk, W. G.**, 3207, and **Smith, K. E.**, 3327.
ank, H. K., and **Eyrich, W.** Detection of aflatoxins and the presence of substances that may be mistaken for aflatoxins in foods, 3788.
ank, P., and **Kraus, P.-V.** Preparation and mode of action of a cation exchanger for internal medicinal use, 497.
anklin, T. C., and **Potts, D.** Coulometric determination of adsorbed hydrogen in electrodeposits, 41.
ansson, L.-A., Roden, L., and **Spach, M. L.** Automated ion-exchange chromatography of uronic acids and uronic acid-containing oligosaccharides, 1570.
ant, M. S., and **Ross, J. W., jun.** Use of a total ionic-strength adjustment buffer for electrode determination of fluoride in water supplies, 2437.
Franzke, C., Grunert, K. S., and **Obrikat, H.** Oxidation of carbohydrates with periodate. I. Determination of monosaccharides, 244; II. Determination of di- and tri-saccharides, 2167.
— **Heder, G.**, and **Brueckner, J.** Tests for purity of cacao butter, 1175.
— **Heims, K. O.**, and **Klaemt, R.** Detection of foreign fat in castor oil and of castor oil in other fats, 3082.
— **Kretzschmann, F.**, and **Beining, K.** Polarographic determination of phenolic antioxidants in edible fats with use of a rotating graphite electrode, 3827.
Frederiksen, S., and **Nissen, O. I.** The purity of two commercial *p*-aminohippurate preparations, 3005.
Freeman, C. C. Detection and differentiation of cod meat substituted for crabmeat in frozen crab products, 1729.
Freeman, D. H., and **Paulson, R. A.** Use of ion-exchange resin beads as chemical micro-standards, 1345.
Freeman, M. L. See **Jolley, R. L.**, 2290.
Freeman, N. K. Applications of i.r. absorption spectrometry in the analysis of lipids, 2.
Freeman, S. K. See **Low, M. J. D.**, 2396.
Frei, J. Quality control in clinical enzymology, 1312.
Frei, R. W. TLC determination of trace metals in cereals, 1779.
— and **Nomura, N. S.** Comparison of techniques for detection and determination of triazine herbicides separated by TLC. II. Reflectance spectrophotometry, 1794.
— **Ryan, D. E.**, and **Stockton, C. A.** TLC properties of transition-metal complexes of pyridine-2-aldehyde 2-quinolylhydrazone, 2566.
Freire, M. de L. See **Silverio, M. J.**, 748.
Freiser, H. [Analytical reviews, 1968]—Extraction, 677.
— See also **Mottola, H. A.**, 1953, 2046, and **Woodward, C.**, 71.
Freitas, J. F. de. Determination of cross-linking agents in dental monomer, 2244.
Fremlin, J. H. See **Chamberlain, M. J.**, 2269, 2271, and **Stubbins, M.**, 1.
French, W. N., Matsui, F., and **Truelove, J. F.** Colorimetric analysis for imipramine, desipramine and trimipramine by a nitrous acid procedure and by the acid dye technique, 1698.
Fresen, J. A., Cox, F. H., and **Witter, M. J.** GLC determination of fluoride in biological material, 3619.
— and **Kogelenberg, P. H. van.** GLC purity testing of organic liquids from the Netherlands Pharmacopoeia (sixth edition, second impression). I, 3743.
Freshwater, D. C. See **Groves, M. J.**, 4036.
Freund, H. See **Claeys, R. R.**, 3125, 3953.
Frevel, L. K., and **Adams, C. E.** Quantitative comparison of powder diffraction patterns, 3185.
Frey, A. See **Simon, H.**, 531.
Freytag, W., and **Ney, K. H.** Occurrence and origin of dimethyl sulphide in the aroma of asparagus, 3809.
Fricke, F. L., Walters, S. M., and **Lampkin, W. T.** GLC determination of dienoestrol in the presence of methyltestosterone, 1707.
Fricova, V. See **Pristoupil, T. I.**, 3722.
Frid, B. I., and **Petrikova, M. N.** Inorganic micro- and ultra-micro analysis: progress report, 3.
Friedman, B. I. See **Chen, I-W.**, 1632.
Friedman, M. See **Cavins, J. F.**, 417.
Frindt, R. F., and **Stuart, A.** Narrow-tail glass helium Dewar flask, 1906.

Frink, C. R., and **Peaslee, D. E.** Spectrophotometric determination of micro amounts of aluminium in plant material with 8-hydroxyquinoline, 2865.

Frishberg, A. A. Use of added reagent for thermochemical reactions in spectrographic analysis for arsenic and antimony in molybdenum trioxide, 150.

Friskney, C. A., and **Haworth, C. W.** Electron-probe micro-analysis of metal oxides, 3980. Electron-probe micro-analysis of metal oxides: comparison of correction methods, 3981.

Fritz, J. C. See **Roberts, T.**, 3109.

Fritz, J. S., and **Gillette, M. L.** Anion-exchange separation of metal ions in dimethyl sulphoxide - methanol - hydrochloric acid, 18.

— See also **Schmitt, D. H.**, 2546.

Fritze, K., and **Gietz, R. J.** Contamination problems in the trace analysis of blood for protein-bound metals, 2854.

— and **Robertson, R.** Instrumental and radiochemical neutron-activation analysis techniques for protein-bound trace metals in human serum, 2855.

Fritzsche, K. Determination of ammonium sulphate in suspension by ultrasonic-absorption measurements, 3843.

Frodyma, M. M., **Zaye, D. F.**, and **Lieu, V. T.** Cation analysis by TLC and reflectance spectroscopy. II. Determination of copper, nickel and zinc, 27.

Frolova, Z. S., **Shleina, T. T.**, and **Buzlanova, M. M.** Oscillopolarographic determination of palladium in the presence of large amounts of copper in the catalyst used for oxidation of ethylene, 875.

Frum, E. I. See **Dranitskaya, R. M.**, 3095.

Frumina, N. S., **Goryunova, N. N.**, and **Mustafin, I. S.** Photometric determination of nickel and cobalt with ethyl di-(1-sodiotetrazol-5-ylazo)-acetate, 189.

Fuchs, J. See **Stahl, E.**, 3742.

Fuchs, P., and **Szepesy, C.** Analysis of polystyrene and related resins by pyrolysis - gas chromatography, 3598.

Fuerst, H. See **Lauckner, J.**, 1802.

Fuerst, W. Polarographic determination of hydroxy-compounds as dinitrobenzoic esters or dinitrophenyl ethers, 238.

— and **Mannetstaetter, E.** GLC separation of piperazine and morpholine and their derivatives and of ethylenediamine derivatives, 3559.

Fuhrmann, H. Use, design and economics of modern electrophoresis equipment, 1883.

Fujimaru, M. See **Miyakawa, T.**, 2059.

Fujimoto, M., and **Nakatsukasa, Y.** Micro-analysis with use of ion exchangers. XXV. Detection of nanogram amounts of zinc^{II} or copper^{II} by concentration of the zincon chelate on anion-exchange resin, 1363.

Fujimoto, T. See **Kawamura, S.**, 19.

Fujinaga, T., **Koyama, M.**, and **Tochiyama, O.** Solvent extraction of alkali-metal ions with chromium complexes, 3317.

Fujino, N. See **Shiraiwa, T.**, 1310.

Fukker, K. See **Asztalos, I.**, 2087.

Fukuda, K., and **Mizuike, A.** Separation of traces of metal ions with reagent papers, 1966.

Fukuda, M. [Annual review, 1968]—Organic micro-analysis, 1948.

Fukuda, T., and **Nakamura, T.** [Annual review, 1968]—Gas chromatography, 1948.

Fukumoto, M. See **Sakaguchi, T.**, 1948.

Fuleki, T., and **Francis, F. J.** Quantitative method for anthocyanins. I. Extraction and dete mination of total anthocyanins in cranberrie 3804; II. Determination of total anthocyanir and degradation index for cranberry juice, 380

Fuller, W. H. See **L'Annunziata, M. F.**, 1180.

Fulle Soldi, T. See **Bertoglio Riolo, C.**, 1339.

Fulton, A., and **Butler, L. R. P.** Influence of flame on the interference of iron on strontium absorp tion in atomic-absorption spectrophotometry 3337.

Fulton, R. B., and **Swofford, H. S.** Determinatio of potassium iodate, sampled from sodium nitrate potassium nitrate eutectic melts, by coulometr back-titration in aqueous medium, 1981.

Funasaka, W., **Kojima, T.**, and **Ujimura, K.** Salting out chromatography of isomeric aminonaph thalenedisulphonic acids, 2205.

Funke, A. See **Novak, J.**, 2107.

Furmanski, P., **Reeves, H. C.**, and **Ajl, S. J.** Micro assay for glyoxylate, 2350.

Furtova, E. V. See **Zaikovskii, F. V.**, 1972.

Furtune, L. A. See **Polotebnova, N. A.**, 2833.

Furukawa, M., **Sasaki, Shozo**, **Goto, Kazu** **Kamata, E.**, **Nakashima, R.**, and **Shibata,** 3-Cyano-1,5-bis-(2-hydroxy-5-sulphophenyl)-formazan as chromogenic reagent for metals, 331

Furuta, T. See **Rhodes, J. R.**, 1310.

Furuya, K., **Okuyama, S.**, **Tachikawa, T.**, an **Kamada, H.** Determination of nitrogen in a aluminium-killed steel by isotope-dilution usin aluminium nitride enriched with nitrogen-15, 18

— See also **Kamada, H.**, 1424.

Fusari, S. A. See **Anderson, R. A.**, 2983.

Fuss, K. H. Developments in electrophoret separation, 1313.

Fuster Monescillo, C. Complexometric determin tion of total and ionic calcium and magnesiu in milk, 3030. Determination of the prote content of milk with Amido black, 3033.

Futekov, L. See **Iordanov, N.**, 3423.

Fyans, R. See **Culmo, R.**, 2771.

G

Gaal, F. F. See **Vajgand, V. J.**, 2800.

Gabrielli, L. F. See **Favretto Gabrielli, L.**

Gacen, J. See **Cegarra, J.**, 1508.

Gadbois, D. F., **Scheurer, P. G.**, and **King, F.** Analysis of saturated aldehydes by GLC usi *N*-hydroxymethylphthalimide for regenerati from their Girard-T derivatives, 2168.

Gaddis, A. M. See **Ellis, Rex**, 3822.

Gado, P. See **Asztalos, I.**, 2087, and **Major, T.**, 209

Gafencu, M. See **Bauer, M.**, 1108, and **Grigoresc E.**, 3747.

Gagnaire, D., **Jaulmes, P.**, and **Bugarel, R.** Extra tion et purification des especes chimiques, *Boo* Sept.

Gahn, R. F. Vacuum-distillation for recovery alkali-metal reaction products, 1346.

Gaines, T. P., and **Meudt, W. J.** Iodine determin tion of starch in flue-cured tobacco, 1019.

Gajdos-Torok, M. Separation of porphyrins TLC, 3718.

Gal, A. E. Improved detection and radio-assay monosaccharides on thin-layer or paper chromat grams, 896.

Gal, I. J. See **Obrenovic-Palgoric, I.**, 98.

Gal, S., **Kormany, T.**, **Mezey, M.**, and **Erdey,** Investigation of anodically produced aluminiu oxide layers. II, 3350.

— See also **Erdey, L.**, 3321.

Galaev, Yu. V. See **Khramov, V. A.**, 1884.

za, M. G. S. de. See **Sanchez de Galarza, M. G.**
chi, G., and **Farsirotu, V.** Thermometric
vice for measurement between −196° and
182°, 4034.
a, J. See **Vydra, F.,** 39.
sloot, T. E. See **Das, H. A.,** 1.
ano Sedano, J. A., and **Acena Barrenechea,**
L. Determination of thorium-230 in minerals
d residues from the processing of uranium. I.
emical separation of the element, 2648.
ee also **Acena Barrenechea, M. L.,** 2648.
x, A. Spectrophotometric extractive titrations.
Theory of titration of a single metal, 3911.
ai, Z. A. See **Rubinskaya, T. Ya.,** 166.
e, O. K. Determination of major constituents
geological samples by atomic absorption, 1314.
ert, H. See **Rohrlich, M.,** 2941.
o, F. R. See **Mercaldo, D. E.,** 2996.
us, H. P. C., and **Jennings, A. C.** Fractionation
the nitrogen compounds of wheat flour on
phadex columns, 3018.
uzzi, G. See **Bazzi, B.,** 3854.
nard, P. See **Vidal, G.,** 2697.
pern, G. D. See **Bezinger, N. N.,** 3557.
pern, G. M., Gudkova, G. A., Novorusskaya,
. V., Kireev, L. G., and **Klark, L. N.** Deter-
ination of hydrogen chloride in mixtures
btained in the manufacture of vinyl chloride by
eaction gas chromatography, 331.
l'ina, V. A., Petrova, L. P., and **Sidel'kovskaya,**
. P. Potentiometric titration in non-aqueous
edium of salts of lactams and amino-acids,
61.
ster, W. See **Nauman, L. W.,** 1055.
us, Z., Kemula, W., and **Sacha, S.** Chrono-
otentiometric oxidation of metals from a
anging-mercury-drop electrode, 3246.
uzo, L. V. See **Kosenko N. N.,** 2791.
vin, R. D. See **Ammann, E. C. B.,** 2664.
nble, D. S. Photometric analysis for trace
mounts of hydrazine with *p*-dimethylamino-
enzaldehyde: chemical equilibria. II, 1398.
nble, W. See **Orten, J. M.,** 2294.
apathysundaram, B. See **Venkatasubramanian,**
., 2071.
atra, J. P., Shastri, M. R., and **Mehta, R. C.**
olorimetric determination of mepyramine mal-
ate in cough syrups and expectorants, 1138.
carczyk, T. See **Weyers, J.,** 870.
chev, N., and **Atanasova, B. V.** Colorimetric
etermination of mercury^{II}, 758.
dhi, M. H., and **Desai, M. N.** Spectrophoto-
etric determination of iron^{III} with *o*-hydroxy-
utyrophenone oxime, 856. Spectrophotometric
etermination of iron^{III} with 2′,4′-dihydroxy-
utyrophenone, 3444.
See also **Desai, M. N.,** 1952, 2105.
dhi, R. S. See **Kulkarni, M.,** 959, and **Shah,**
amanlal C., 960.
escu, I., and **Oprescu, D.** Chemistry of hexa-
hiocyanatochromic acid. VII. Determination
f amidopyrine in the form of thiocyanato-
hromate complexes, 1133.
ev, P. See **Pruvcheva, Kh.,** 3450.
guli, N. C. See **Joshi, V. K.,** 1157.
guly, A. K. See **Panday, V. K.,** 2562.
iev, A. G., Nazmitdinov, M. K., and **Sabirov, S.**
etermination of trace impurities in vanadium
entoxide by radioactivation, 136.
See also **Abdusalyamov, N.,** 3475.

Ganina, V. G. See **Korenman, I. M.,** 3498.
Ganopol'skii, V. I. Difference spectrophotometric determination of yttrium in total rare-earth metals, 2022.
Gaponyuk, E. I. See **Busev, A. I.,** 2069.
Garber, C., Mirta Aseem, E., and **Miguel Pinol, L.** Paper chromatography of some sulphonamides, 3000.
— See also **Dobrecky, J.,** 1142, 1694.
Garbini, L. J., Mooney, J. B., and **Schoder, C. E.** Technique for micro-spark emission spectroscopy, 2497.
Garcia, F. C. See **Capitan Garcia, F.**
Garcia, V. C. See **Masri, M. S.,** 1734.
Garcia Montelongo, F. See **Fernandez, T.,** 707.
Garcia-Villanova, R., and **Bosch, F.** Indirect mercurimetric determination of chloride with the sodium salt of chromotropic acid as indicator, 2726.
— **Thomas, J.,** and **Bosch, F.** Spectrophotometric identification of rhamnose and fucose by reaction with chromotropic acid, 898.
Garg, B. S., Trikha, K. C., and **Singh, Rudra P.** Kaempferol as a reagent for determination of zirconium, 2060. Spectrophotometric determination of scandium with kaempferol, 3358.
Garilhe, M. P. de. See **Privat de Garilhe, M.**
Garner, E. L. See **Catanzaro, E. J.,** 2055.
Garner, H. R., and **Packer, H.** Preparation of potassium bromide pellets from micro samples, 1286.
Garrec, J. P. See **Breynat, G.,** 1.
Garrett, C. See **Greichus, Y.,** 1556.
Garrett, J. See **Flaschka, H.,** 3260, 3465.
Garry, P. J., Nelsen, C. E., and **Owen, G. M.** Measurement of deuterium oxide in plasma water by determining freezing-point elevation, 1536.
Garska, K. J. Microgram determination of chlorides by deposition as silver chloride and X-ray fluorescence, 740.
Garus, Z. F. See **Tulyupa, F. M.,** 2600.
Gasco Sanchez, L. See **Barrera Pinero, R.,** 2405, and **Martin Mira, J.,** 2404.
Gas Council [U.K.]. Device for measuring the content of aromatic compounds in gases, 3908.
Gasparic, J., and **Gemzova, I.** Identification of organic compounds. LXX. Detection and determination of the number of hydroxyl groups in disperse azo-dyes, 2834.
— See also **Cee, A.,** 319.
Gassiot-Matas, M. See **Burriel-Marti, F.,** 240.
Gauger, M. A. See **White, L. M.,** 1915.
Gava, S. A. See **Poluektov, N. S.,** 3361.
Gavrilina, L. Ya. See **Rudas', V. I.,** 3495.
Gawargious, Y. A., Habashy, G. M., and **Bishara, S. W.** Polarography in organic analysis. I. Determination of nitro-groups in organic compounds by reduction with titanium^{III}, 1444.
— See also **Habashy, G. M.,** 890.
Gayen, A. K. See **Chakrabarty, M. M.,** 3802.
Gecan, J. S., and **Brickey, P. M., jun.** Extraction of light filth from peanut butter, 1738.
— See also **Brickey, P. M., jun.,** 3010, and **Vazquez, A. W.,** 1739.
Gehring, D. G., and **Reddy, G. S.** Examination and determination of 2,4-dinitrotoluene and isomers of trinitrotoluene in 2,4,6-trinitrotoluene by NMR, 977.
Gehrke, C. W., Baker, W. L., Krause, G. F., and **Russell, C. H.** Evaluation of apparatus used for sampling bulk fertilisers, 3100.
— See also **Shahrokhi, F.,** 3704, and **Tindle, R. C.,** 1187.

Geisel, W. Calculation of particle size distribution of a powder from fraction-separation efficiency curves and total separation efficiency, 4037.

Geiss, F., and **Glantin, G.** Automatic GLC evaluation device for analyses with an internal standard, 617.

— See also **European Atomic Energy Community,** 1239.

Gelin, B. See **Andersson, L. H.,** 2093.

Geller, K. See **Hesse, G.,** 1637.

Gellerman, J. L., and **Schlenk, H.** Isolation and determination of anacardic acids, 1163.

Gel'man, N. E., and **Grigor'yan, V. P.** Microdetermination of oxygen in organic compounds containing sulphur: interaction of nickel with the sulphur-containing products of pyrolysis, 217.

— and **Terent'eva, E. A.** Organic analysis: progress report, 3.

— See also **Shanina, T. M.,** 2781.

Gelpi, E., and **Oro', J.** GLC - mass spectrometric analysis of isoprenoid hydrocarbons and fatty acids in shark-liver oil products, 536.

Gelpi, L. See **Aurenge, J.,** 976.

Gemzova, I. See **Gasparic, J.,** 2834.

General Electric Co. Improved analysis of gases containing low concentrations of phosgene, 3120.

Genest, K., and **Hughes, D. W.** Chromatographic identification of 2,5-dimethoxy-α,4-dimethylphenethylamine and related drugs, 3763.

Genetet, B. See **Vigneron, C.,** 3721.

Genis, I. See **Montagut Buscas, M.,** 3604.

Geoghegan, J. T., and **Rodson, M.** Determination of unsaponifiable matter in tall oil and coconut oil, 3599.

Geokas, M. C. See **Rinderknecht, H.,** 3735.

George, J. D. See **Baker, T. W.,** 1310.

Georgescu-Pazarinina, V., and **Cosmin, A.** Ultraviolet spectrophotometric determination of tolazoline in tablets and injections, 2998.

Georgievs'kii, V. P., and **Salatova, V. I.** Determination of methyl 4-hydroxybenzoate and 4-chloro-3,5-xylenol by potentiometric titration in dimethylformamide medium, 3009.

Geppert, G. See **Assmann, K.,** 608.

Gera, J. Application of anion exchanger for quantitative separation of cations of analytical group three. II. Separation of manganese from zinc, 3439.

Gerard, J. See **Holland, W. J.,** 1352, 3473.

Gerarde, H. W. See **Deichman, W. B.,** *Book*: Nov., and **Walters, M. I.,** 2333.

Gerbatsch, R., and **Krasnobaeva, N.** Photographic recording in emission spectroscopy. III. Choice of optimum photographic materials, 2494.

Gergs, P. See **Manecke, G.,** 1066.

Gerken, E. B. See **Bogoyavlenskaya, A. N.,** 830.

Gerlach, H. Study of *Solidago* species and their contents. II. Detection and determination of inulin in the root, 3648.

Gerlach, K. See **Sawicki, E.,** 3507.

Germishuizen, P. J. See **Ballschmieter, H. M.,** 3807.

Gerner, R. E. See **Mario, E.,** 2230.

Gerola, M. See **Spandrio, L.,** 1577.

Geronimus, I. I. Quantitative determination of haptoglobin in blood serum by the ethacridine lactate method, 1078.

Gershbein, L. L., and **Al-Wattar, J.** Disc and cellulose acetate electrophoresis of human placental proteins, 1620.

Gertner, S. See **Weisenberg, E.,** 3116.

Gertsev, V. V., and **Makarov-Zemlyanskii, Ya. Ya.** Determination of hydroxy-groups in carbohydrate compounds by trans-esterification with alkyl borates, 2792.

Gessa, G. L. See **Tagliamonte, A.,** 1023.

Get'man, T. E. See **Babko, A. K.,** 2016.

Getzendaner, M. E., Doty, A. E., McLaughlin, E. and **Lindgren, D. L.** Determination of bromi residues from bromomethane fumigation of fo commodities, 1166.

Geurts, J. J., Stelle, J. E. van, and **Brinkman, E.** Determination of biuret in urea and mix fertilisers, 1183.

Geyer, F. Reliability of volumetric measuri equipment and measurements. I, 3896; II, 389

Geyer, H. Separation of isoenzymes of mala dehydrogenase in animal and human tissues, 131

Geyer, R., and **Muecke, H.** Potentiometric titrati of hexafluorosilicates, 3380.

Ghosh, N. K. See **Inglis, N. R.,** 448.

Ghosh, S. K. See **Chatterjee, S. C.,** 3841.

Gianelos, J., and **Wilkes, C. E.** Effect of surfa roughness in polymers on X-ray fluorescen intensity measurements, 1310.

Gibaldi, M. See **Feldman, S.,** 2287.

Gibalo, I. M., Alimarin, I. P., and **Eremina, G.** Extraction - photometric determination of n bium as mixed complexes, 137.

Gibbard, S., and **Watkins, P. J.** Micro-method the enzymic determination of D-3-hydro butyrate and acetoacetate, 390.

Giber, J. See **Nagy, L. G.,** 114.

Gibney, K. B. See **Dutton, G. G. S.,** 3504.

Gibree, N. B. See **Roberts, J. B.,** 2308.

Gibson, F. H. See **Abernethy, R. F.,** 2769.

Gibson, N. A. See **Cameron, A. J.,** 197.

Gibson, R. H. See **Sturrock, P. E.,** 667.

Giddings, J. C. See **McLaren, L.,** 613.

Gietz, R. J. See **Fritze, K.,** 2854.

Gifford, J. C. See **Thomas, C. L.,** 2593.

Gijbels, R., and **Hoste, J.** Simultaneous det mination of osmium, ruthenium, iridium and g in platinum by neutron-activation analysis, 27

— See also **Pauwels, M.,** 3374.

Gijzen, A. H. J. See **Altmann, A. E.,** 1551, a **Brombacher, P. J.,** 1589.

Gil'bert, E. N., Pronin, V. A., and **Torgov, V.** Neutron-activation determination of tantal in niobium and of niobium in tantalum, 2076

— See also **Nikolaev, A. V.,** 706.

Gilbert, G. L. See **Coleman, J. S.,** 837.

Gilchrist, F. M. C., Potgieter, E., and **Voss, J. B.** Determination of the biuretolytic activity of ruminal flora of sheep fed practical rations c taining biuret, 451.

Gilfrich, J. V., and **Birks, L. S.** Spectral distribut of X-ray tubes for quantitative X-ray flu escence analysis, 2486.

Gill, H. H. See **Dow Chemical Co.,** 3926.

Gillette, M. L. See **Fritz, J. S.,** 18.

Gillieson, A. H. See **Reed, D. J.,** 2484.

Gillo, L. See **Delori, P.,** 1619.

Gimesi, O., and **Rady, G.** Cyanimetric determi tion of substituted isoquinoline derivatives non-aqueous solution, 1482.

Ginn, M. E. See **Hoover, W. E.,** 314.

Giocoli, G. See **Cavina, G.,** 406, 476.

Giovannetti, S., Maggiore, Q., and **Malvano,** Neutron-activation analysis for trace elements plasma from normal subjects and from patie with chronic uraemia, 1.

Giovanniello, T. J., Dibenedetto, G., Palmer, D. and **Peters, T.** Fully- and semi-automa determination of serum iron and total iron-bind capacity, 2278.

Giovannozzi-Sermanni, G., and **Tomati, U.** De mination of the activity of proteolytic enzym 3734.

ein, E. See **Deverse, F. T.**, 1863.

d, F. See **Daigne, B.**, 3280.

d, M. L. Determination of copper and zinc in ological media by atomic absorption, 1539.

ousselet, F., Livillain, P., and **Fouye, H.** ectrochemical pharmaceutical analysis. I. se of coulometry, 3771.

rdi, F. Radiochemical separations in activation alysis of biological specimens, 1.

auly, J., Sabbioni, E., and **Vos, G.** Non-destruc- ve elementary analysis of biological standard ference material: comparison between radio- tivation analysis and X-ray fluorescence ectroscopy, 1.

nd **Sabbioni, E.** Selective removal of radio- dium from neutron-activated materials by tention on hydrated antimony pentoxide, 1535.

ee also **Merlini, M.**, 615.

e, W. See **Wilk, M.**, 1313.

ke, P. See **Buechler, W.**, 3267.

ow, S. E. See **Wilk, E. K.**, 1044.

fre, L., and **Losio, E.** Analysis of nitrosating lutions, 2239.

osio, E., and **Castoldi, A.** Metal indicator- ectrodes for potentiometric determination of lphur trioxide in oleum, 2082.

le, G. H. X-ray spectroscopy of gold and odium plating thickness on very small samples, 310.

nd **Post, H. R.** Study of ageing of solder tandards used in X-ray spectroscopy, 800.

ntin, G. See **Geiss, F.**, 617.

ser, R. Electronic data-processing in the nalytical chemical laboratory, 3894.

ze, N. C., and **Wilcox, M.** Analysis of dichloro- ydroxyphenoxyacetic acids by GLC, 1793.

zer, R. See **Guilbault, G. G.**, 447.

zov, V. M., and **Korshunov, I. A.** Activation nalysis for selenium in high-purity sulphur, 3419.

ispach, H. Bistrimethylsilylacetamide as ilylating reagent for the separation of steroid ormones by GLC, 1313.

k, D. Methods of biochemical analysis. Vol. XVII, *Book*: Nov.

See also **Peppers, N. A.**, 3192.

khova, L. P. See **Nemodruk, A. A.**, 2034, 3370.

lding, R. G. See **British Cast Iron Research Association**, 2571.

ecke, R. Determination of vanadium in ores by tomic-absorption spectrophotometry, 3412.

eij, J. J. M. de. See **Kooten, W. J. van**, 1.

el, D. P. See **Katyal, M.**, 2734.

enechea, S. Identification of four imidazoline erivatives of therapeutic importance by TLC, 3784.

enner, M. See **Weisz, H.**, 28.

etz, H. See **Scheiffarth, F.**, 2332.

hlke, R. S., and **Thompson, L. H.** 'Perfluoro- kerosene' as internal reference for negative-ion mass spectrometry, 1911.

hshi, Y. See **Tada, K.**, 1948, and **Yoshioka, T.**, 205.

ldbaum, L. R., Domanski, T. J., and **Schloegel, E. L.** Helium ionisation detector for the deter- mination of the major atmospheric gases, 2701.

ldbeck, C. G., Turel, S. P., and **Rodden, C. J.** Determination of oxygen and nitrogen by inert-gas fusion with pulse heating, 2079.

ldberg, M. C. See **Babad, H.**, 553, 1809.

ldblatt, H. See **Haas, E.**, 450.

ldhaar, I. See **Dimitriu, A.**, 2138.

ldstein, G. See **Burtis, C. A.**, 2339.

dstein, J. H. See **Loemker, J. E.**, 918.

Goldstein, L., and **Katchalski, E.** Use of water-insoluble enzyme derivatives in biochemical analysis and separation, 1313.

Goldstein, S. Semi-micro determination of carbon in organic compounds by closed-flask combustion, 210.

Goleb, J. A. Determination of neon and argon in helium by atomic-absorption spectrophotometry, 1343.

Golec, Z. See **Kalinowska, Z. E.**, 1128, 3759.

Goles, G. G. See **Gordon, G. E.**, 1429.

Golikova, M. T. See **Anashkina, N. P.**, 2196.

Golonka, A. See **Brhacek, L.**, 3313.

Golovnya, R. V., and **Uralets, V. P.** Correlation isothermal index for temperature-programmed gas chromatography, 3969.

Golubtsova, Z. G., Lebedeva, L. I., and **Likhareva, T. P.** Effect of organic reagents on the precipitation of tungsten as tungstic acid, 845.

Gomez Coedo, A., and **Jimenez Seco, J. L.** Determination of chromium in steel by atomic-absorption spectrophotometry, 2744. Spectrophotometric determination of boron in aluminium and its alloys, 3349.

Gomm, P. J., and **Eakins, J. D.** Determination of actinium-227 in urine, 987.

— See also **Eakins, J. D.**, 2868.

Gompertz, D. Determination of urinary methylmalonic acid by a combination of TLC and GLC, 391.

Gondos, G. See **Matkovics, B.**, 2312.

Gong, R. E. See **Dial, J. E.**, 105.

Gonnard, P. See **Camier, M.**, 3737.

Gonzalez, E. See **Herz, J. E.**, 1029.

Gonzalez-Sastre, F., and **Folch-Pi, J.** TLC of phosphoinositides, 3669.

Good, M. L. See **Clausen, C. A., III**, 1311.

Goodall, G. H. Determination of strontium in bone, milk and vegetable ash by ion-exchange separation and flame photometry, 355.

Gooderson, C. Y., and **Salt, F. J.** Micro-determination of chromium in biological material, 3617.

Goodhead, K. See **Mesley, R. J.**, 1681.

Goodman, H., Rhodes, C. T., Knevel, A. M., and **Banker, G. S.** Spectrophotometric determination of phenylephrine in the presence of polymeric materials, 3767.

Goodspeed, H. T., Holt, B. D., Marsh, J. H., jun., and **Stoessel, J. E.** Remote analysis of radioactive alloys for carbon, oxygen, nitrogen and hydrogen, 697.

Goodwin, J. F. Measurement of urinary amino-nitrogen with 1-fluoro-2,4-dinitrobenzene, 3682.

Goossens, W. Non-radioactive physical analysis during gaseous re-processing of nuclear fuel, 2655.

Gopalakrishnan, J. See **Savant, V. V.**, 2803.

Gorbach, G. Analysis for metal traces in fats and oils by micro-scale paper or thin-layer chromatography, 2535.

— and **Hekal, I.** Micro-chromatographic determination of ascorbic acid in citrus fruits: application to quality control, 3831.

— **Henke, J.,** and **Hekal, I.** Micro-determination of ascorbic acid, 3088.

Gorbacheva, I. I. See **Kirgintsev, A. N.**, 2549.

Gorbe, E. See **Crisan, I. A.**, 2626.

Gorbenko, F. P., and **Nadezhda, A. A.** Extraction of strontium by using azo-azoxy BN, 2608.

Gorbushina, L. V., Gratsinskii, V. G., and **Tyminskii, V. G.** Use of ultrasonics for extraction of radon-220 and radon-219 from solutions, 2030.

Gorczynska, K. See **Ciecierska-Tworek, Z.**, 3320.

Gordievskii, A. V. See **Kiryushov, V. N.**, 3232.

Gordon, B. E., and **Curtis, R. M.** Study of the anti-quench shift in liquid-scintillation counting, 4028.
Gordon, C. See **Fischl, J.**, 1557.
Gordon, G. E., **Randle, K.**, **Goles, G. G.**, **Corliss, J. B.**, **Beeson, M. H.**, and **Oxley, S. S.** Instrumental activation analysis of standard rocks with high-resolution X-ray detectors, 1429.
Gordon, J., and **Pankratz, R.** Fluorimetric determination of gibberellic acid, 2424.
Gore, T. S., and **Inamdar, P. K.** Micro-determination of nitro-groups in organic compounds, 2784.
Gorelov, P. N. Determination of free sulphuric acid in ammonium sulphate, 3403.
Goren, S. L. See **Spielman, L.**, 1942.
Goretti, G. C., **Liberti, A.**, and **Nota, G.** Gas-chromatographic determination of isotopic molecules by means of open-tubular thick-layer graphitised carbon black columns, 248.
Gorka, P. See **Gregorowicz, Z.**, 2174.
Gorner, F. See **Palo, V.**, 1156.
Gorokhovskaya, A. S. See **Evstaf'eva, I. P.**, 2836.
Gorshkova, T. A. See **Volodina, M. A.**, 3490.
Gorskaya, L. A. See **Yakerson, V. I.**, 2171.
Gorske, A. L. See **Bryan, G. T.**, 1007.
Gorta, T. See **Wisniewski, W.**, 1667.
Goryaev, M. See **Kupec, J.**, 1261.
Goryunova, I. F. Absorptiometric determination of silver in technical cyanide solutions, 1995. Absorptiometric determination of gold in technical cyanide and thiourea solutions, 2000.
Goryunova, N. N. See **Frumina, N. S.**, 189.
Gosnell, C. M. See **Walkenstein, S. S.**, 1933.
Goto, H., and **Namiki, M.** Simultaneous determination of lead and zinc in iron, steel and iron ores by d.c. polarography, 180.
— and **Saito, A.** Determination of molybdenum in iron and steel with a vacuum spectrograph, 2117.
— See also **Namiki, M.**, 2113.
Goto, Katsumi, and **Yotsuyanagi, T.** Determination of uninuclear aluminium complex ions in the presence of a large amount of polynuclear aluminium species, 2013.
Goto, Kazuo. See **Furukawa, M.**, 3311.
Goto, Shigeru, **Kono, A.**, and **Iguchi, S.** Reaction kinetics of dehydroacetic acid. II. Reaction with primary amines and determination of reaction products of phenethylamine, 1473.
Goto, Shinko. See **Suzuki, K.**, 2408.
Gotoh, Y. See **Takagi, M.**, 3792.
Gottesfeld, S. See **Lapid, Y.**, 91.
Gottlieb, O. R. See **Mesquita, A. A. L.**, 3552.
Gottschalk, G. Statistical evaluation of investigational results, 1312.
Gouezo, F., **Roman, J.-P.**, and **Cristau, B.** Identification of drugs derived from 2-pyrazolin-5-one and pyrazolidine-3,5-dione by TLC and u.v. spectrophotometry, 1692.
Gould, A. B. See **Haas, E.**, 450.
Gould, I. A. See **Koka, M.**, 513.
Gould, J. H. See **Chen, J.-Y. T.**, 3061.
Goulden, M. L. See **Shotwell, O. L.**, 1781.
Gouw, T. H. See **Jentoft, R. E.**, 1845.
Gowenlock, A. H., and **Broughton, P. M. G.** Influence of accuracy and precision on the normal range and on acceptable limits for an analytical result, 1312.
— See also **Broughton, P. M. G.**, 1312.
Gower, D. B., and **Thomas, B. S.** GLC of androst-16-en-3-ols as trimethylsilyl and chloromethyldimethylsilyl ethers, 3678.
Goydish, B. L. See **Cheng, K. L.**, 37.
Grabarov, P. G., and **Turchaninova, T. P.** Determination of phosphorus in ammonium carbonate extracts of soil, 1784.
Graber, F. M. See **Andersen, G. H.**, 1.
Grabowicz, W. Determination of nifenazone w chloramine T, 484. Application of cyclohexane the analysis of technical amidopyrine, 1132.
Grabowska, I. Chromatographic examination a spectrophotometric determination of 2-dieth aminoethyl acetylsalicylate hydrochloride, 17 Determination of salicylic acid in the presence 2-diethylaminoethyl acetylsalicylate hyd chloride, 3760.
Grachev, K. Ya., and **Grebenik, V. Z.** Polarograp determination of the solubility of calcium ox in molten sodium chloride - calcium chlor eutectic, 2003.
Gracian Tous, J., and **Martel, J.** Determination the hydroxyl value of the unsaponifiable mat of olive and sansa oils by near-i.r. spectropho metry, 2412.
Graesslin, D., and **Weicker, H.** Detection of bou carbohydrates in glycoproteins, 2898.
Graham, J. H. Instrumental analysis for carb hydrogen and nitrogen with electronic integrati 2145.
Graham, R. J. T., **Bark, L. S.**, and **Tinsley, D.** Use of a liquid anion-exchanger in inorga TLC, 1968.
Grakhov, V. A. See **Abdullaev, A. A.**, 566.
Gramain, P., and **Rascio, V. J. D.** Analysis marine paint vehicles by i.r. spectrophotomet 972.
Grandolfo, M. See **Strain, H. H.**, 3717.
Granger, P. Mathematical analysis of high-reso tion NMR spectra, 1297.
Granik, E. M., and **Chemerisskaya, A. A.** Chroma graphic study of some derivatives of quinoxal *N*-oxides. I. Behaviour in paper chroma graphy, 1484.
Granovskii, Yu. V. See **Kamenev, A. I.**, 660.
Grant, L. G. See **Bird, E. D.**, 1.
Grassl, M., and **Moellering, H.** Spectrophotomet determination of phospholipase A, 1313.
Gratsinskii, V. G. See **Gorbushina, L. V.**, 2030.
Gratteau, J. C., and **Dick, R. I.** Determination suspended solids in activated sludge, 3886.
Gravesen, K. J. Daily quality control and use statistical limits in a hospital laboratory, 1313
Gray, H. B., jun. See **Hearst, J. E.**, 3915.
Gray, P. S. See **United Kingdom Atomic Ener Authority**, 3907.
Gray, R. H., and **Steffensen, D. M.** High-resoluti method for slicing, and counting radioactivity polyacrylamide gels, 3975.
Grazioli, G. See **Poy, F.**, 335.
Grebenik, V. Z. See **Grachev, K. Ya.**, 2003.
Grecu, I., and **Barbu, S.** Gravimetric, volumet and colorimetric determinations of chlordiaze oxide, 2378; 2994. Determination of ambazo 3002. Determination of chlophedianol, 3006.
— and **Curea, E.** Complex compounds of hydrallazine. VI. Metal sulphate complexes, 30
Green, A. G., **Hallaways, I.**, and **Blacker, P.** Determination of tetrahydrocortisol and tet hydrocortisone in urine, 1595.
Green, C. B. See **Belisle, J.**, 1435.
Green, M. E. See **Salzberg, H. W.**, *Book:* Nov.
Green, W. G. E., and **Israelstam, G. F.** Increas sensitivity in fluorimetric determinations nicotinamide nucleotide coenzymes, 1641.
Greene, A. F. Analysis of nickel sulphama plating solutions, 2753.
Greene, R. S. See **Downing, D. T.**, 901.
Greenfield, S., **Smith, P. B.**, **Breeze, A. E.**, a **Chilton, N. M. D.** Atomic absorption with electrodeless high-frequency plasma torch, 18

nland, L. P. Application of coincidence count- g to neutron-activation analysis, 2671.
nough, W. See **Judson, G.**, 590.
nstreet, R. A. Collection of steroids eluted om a GLC column, 404.
nwood, M. R. See **Clarkson, T. W.**, 2864.
r, M., Sprinkle, T. J., and **Williams, C. M.** etermination of urinary 3-methoxytyramine, ormetadrenaline and metadrenaline in phaeo- iromocytoma and neuroblastoma by GLC, 3684.
gor, V. See **Hermanek, S.**, 2212.
gorowicz, Z., Baranowski, R., and **Ladon, A.** pplication of chromatography in analysis of olyoxyethylene non-ionic surface-active sub- ances, 2226.
nd **Gorka, P.** Fluorimetric determination of ebacic acid with resorcinol, 2174.
nd **Klima, Z.** Photometric determination of latinum^{IV}, palladium^{II} and osmium^{VIII} with -mercapto-1,3,4-thiadiazoline-2-thione, 3477.
Kowalski, S., and **Buhl, F.** Applications of edox indicators in analysis, 3264.
Kwapulinska, G., and **Piwowarska, B.** Colori- ietric determination of copper in blood serum ith 2,2′-bicinchoninic acid, 3609.
nd **Olejniczenko, M.** Volumetric determination f calcium, strontium or barium with sodium xalate in aqueous acetone medium in the presence f potassium permanganate, 3334.
Piwowarska, B., Buhl, F., and **Kania, K.** Ultra- iolet spectrophotometric determination of 2,2′- icinchoninic acid, 2211.
See also **Baranowski, R.**, 2807.
gory, N. L. Identification of glycerol, ribitol nd anhydroribitol by GLC and TLC, 3645.
gory, R. L. See **Pohle, W. D.**, 2.
ichus, Y., Lamb, D., and **Garrett, C.** Efficiency f extraction of metabolically incorporated abelled HEOD from pheasant tissues, eggs and aeces, 1556.
ider, M. H. See **Fisher, R. M.**, 677.
iling, H. See **Kisters, R.**, 1313.
kov, A. P., and **Malyutenko, S. A.** Photometric etermination of hydrazides of aliphatic or romatic carboxylic acids, 3514.
sl', V. G. See **Busev, A. I.**, 873, 2754.
ssel, J., and **Wolowelsky, J.** Spectrophotometer ttachment for scanning polyacrylamide gels, 006.
ttie, D. P. See **Bailey, R. E.**, 2457.
ve, H. See **Busch, E.-W.**, 2953.
bova, E. A. Determination of compounds elated to ethylenediamine-*NNN′N′*-tetra-[2-(2- ropoxyethoxy)ethanol] by acid - base titration a non-aqueous medium, 311.
laev, V. F. See **Stromberg, A. G.**, 24.
eco, M. See **Luisi, M.**, 2309.
epink, B. F. A., and **Krijgsman, W.** Improved ombustion of organic substances in ultra-micro xygen-filled flasks, 209. Determination of rsenic in organic compounds with an electrical nd-point reading. I, 1441.
and **Terlouw, J. K.** Determination of centi- iilligram amounts of nitrogen in organic com- ounds, 1439.
erson, W. See **Hayward, F. W.**, 527.
ffiths, M. H., and **Mallinson, A.** Furnace for ombustion of biological material containing ompounds labelled with tritium and carbon-14, 49.
ffiths, W. J. Estimation of creatine in red cells, 317.
ggs, K. S. See **Nelson, G. O.**, 3119.
Grigorescu, E., Gafencu, M., and **Bilbiie, E.** Chromatographic identification of tetracyclines and of chloramphenicol, 3747.
— See also **Bauer, M.**, 1108.
Grigor'ev, G. P. See **Vasil'eva, T. M.**, 321.
Grigoryan, L. G. See **Melkonyan, S. A.**, 3512.
Grigor'yan, V. P. See **Gel'man, N. E.**, 217.
Grimanis, A. P. Determination of copper in plants by neutron-activation analysis, 351.
— and **Hadzistelios, I.** Extraction of antimony bromide and iodide into benzene, 819.
— See also **Papadopoulou, C. P.**, 1.
Grimes, D. J., and **Marranzino, A. P.** Semi-quantitative analysis of geologic materials by d.c. arc and a.c. spark emission spectrography, 2763.
Grimmer, B. J. See **Pearce, R. H.**, 3646.
Grimshaw, H. M. See **Evans, C. C.**, 1178.
Grinberg, E. B. Determination of the silica - sodium oxide ratio of water-glass, 3382.
Grinzaid, E. L. See **Nadezhina, L. S.**, 1970.
Groagova, A., and **Pribyl, M.** Determination of the anion of alkyltin carboxylates by titration in non-aqueous solution, 224.
Grob, K. Stable films as stationary phases for glass capillary GLC columns, 1251.
Groebel, W. Examination of poly(vinylidene chloride) copolymer film used for packaging foods, 3011.
Groebler, B. See **VEB Carl Zeiss Jena**, 1280.
Groeger, D. Separation of some harman alkaloids by TLC, 1666.
Groeneveld, E. R., and **Boef, G. den.** Photometric titrations with chromium^{II} in alkaline solution, 687. Photometric determination of nitrate with chromium^{II}, 1785.
Groenewald, T. Determination of gold^{I} in cyanide solutions by solvent extraction and atomic-absorption spectrometry, 1356.
Gromakova, Z. I., Buketov, E. A., and **Dymov, A. M.** Phase analysis of copper-electrolyte slimes for selenium compounds, 734.
Gromov, B. V. See **Erdei, M.**, 2676.
Gromova, M. I. See **Peshkova, V. M.**, 2026.
Grosch, W. Chromatographic analysis of neutral compounds containing the carbonyl group, 1718. Linoleic acid and linolenic acid as substrates for the formation of volatile carbonyl compounds in peas, 3049.
Grosjean, M. H., and **Fouassin, A.** Determination of lactose and butter fat in milk bread, 1151.
— and **Noirfalise, A.** Identification and determination of glutethimide and 2-phenylglutarimide in biological media by GLC, 3625.
Grosse-Ruyken, H. See **Doege, H.-G.**, 3429.
Grossmann, Heinz, and **Wagner, Hellmut.** Electrophoresis and thin-layer gel filtration of nitrotetrazolium blue chloride, 2824.
Grossmann, Horst. See **Sarry, B.**, 3527.
Grosso, P. See **Malvano, R.**, 1340.
Groszkowski, S., and **Hasztar, H.** Argentimetric or non-aqueous acidimetric titration of quaternary salts of substituted 1,4-bis-(piperidinoacyl)-piperazines, 1146.
— **Hasztar, H., Kurzawinska, J.,** and **Najman, L.** Volumetric and amperometric determinations of cytostatic haloacyl derivatives of piperazine and 2-methylpiperazine, 1145.
Groth, R. H., and **Doyle, T. B.** Gas-chromatographic determination of traces of carbon dioxide in oxygen or helium, 605.
Grottke, M. See **Scheiffarth, F.**, 2332.
Grove, E. L., and **Perkins, A. J.** Developments in applied spectroscopy. Vol. VIIA, *Book*: Oct.; Vol. VIIB, *Book*: Nov.

Groves, M. J., and **Freshwater, D. C.** Particle size analysis of emulsion systems, 4036.

Gruber, C. M., jun. See **Wolen, R. L.,** 2281.

Gruber, M. P., and **Klein, R. W.** Determination, by TLC, of sulphanilamide as a degradation product in pharmaceutical preparations containing sulphacetamide sodium, 2384.

Gruchenkov, R. G., Skorokhod, O. R., and **Tishchenko, I. G.** Use of 2-(1-diethylamino-1-methylethyl)dihydro-4-hydroxyfuran-3-one in analysis, 2537.

Grueneklee, D. See **Hoffmann, H. H.,** 2902.

Gruenert, A., Ballschmiter, K., and **Toelg, G.** Determination of nanogram amounts of sulphide by fluorescence analysis, 1404.

Gruenig, D. See **Trainer, T. D.,** 2965.

Grundke, K. See **Schievelbein, H.,** 1550.

Grunert, K. S. See **Franzke, C.,** 2167.

Gruzdeva, N. A., Zhilina, N. B., and **Teikhrib, T. K.** Direct potentiometric determination in aqueous acetone medium of organic bases in heavy pyridine bases, 948.

Grzegrzolka, E. See **Minczewski, J.,** 2553.

Gualandi, G. See **Morisi, G.,** 2988.

Gubler, A. See **Dambacher, M.,** 2871.

Gudkova, G. A. See **Gal'pern, G. M.,** 331.

Gudz', L. F., and **Latysheva, A. N.** Complexometric determination of free magnesium oxide in the magnesium oxide - silica or magnesium oxide - chromium oxide system, 745.

Guell, J. See **Kiermeier, F.,** 3036.

Guenther, H. Analysis of lemon oils by GLC and i.r. spectroscopy, 1165. Separations of some proteins and their peptides from beef muscle, 1313.

— and **Schweiger, A.** Detection of sugar components of polysaccharides by TLC and i.r. spectrophotometry, 1567.

— See also **Simon, H.,** 1313.

Guentherberg, H., and **Rapoport, S.** Determination of oxidised glutathione in tissue, 1613.

Guenzler, G. See **Fischer, C.,** 2714.

Gueriviere, J. F. de la. See **Audidier, Y.,** 505.

Guerrero, E. See **Drujan, B. D.,** 1090.

Guertler, O. See **Dolezal, J.,** 165, and **Holzapfel, H.,** 841.

Guest, A., and **Lock, C. J. L.** High-temperature cell for i.r. examination of highly reactive gases, 1902.

Guglielmone, A. E. R. de, and **Coggiola, L. N.** Determination of amino-acids by TLC and spectrophotometry, 3697.

Guha, A. See **Chatterjee, S. C.,** 3841.

Guichard-Loudet, N. See **Boulet, R.,** 936.

Guilbault, G. G. [Analytical reviews, 1968]—Use of enzymes in analytical chemistry, 677.

— **Brignac, P. J., jun.,** and **Juneau, M.** 'Substrates' for the fluorimetric determination of carbohydrates liberated by oxidative enzymes, 2291.

— **Sadar, M. H.,** and **Arcenaux, D.** Fluorimetric assay for lipase, 2968.

— **Sadar, M. H., Glazer, R.,** and **Skou, C.** *N*-Methylindol-3-yl esters as substrates for cholinesterase, 447.

Guildford, L. H. See **Mullard Ltd.,** 3137.

Guinn, V. P. Neutron-activation analysis: application to the analysis of food products, 2.

— See also **Andersen, G. H.,** 1, and **Bryan, D. E.,** 1.

Guinot, Y. Determination of acetoin and methanol for estimation of the quality of apples, 1735.

Guiochon, G. See **Farre-Rius, F.,** 1512, and **Landault, C.,** 606.

Guiraud, G., and **Berlier, Y.** Chemical and isotopic determination of small amounts of nitrogen in soil, 3092.

Guitton, J., Deroo, D., and **Besson, J.** Kinetics dissolution and hydrolysis of chlorine in aqueo concentrated sodium chloride solutions: app cation to the determination of chlorine and hyp chlorous acid, 2727.

Gukalova, T. P. See **Martur, V. G.,** 3890.

Gul'ko, G. I. Analysis of products of the d hydrogenation of ethyltoluenes by GLC, 1466.

Gumbar, K. K. See **Belopol'skii, M. P.,** 1379.

Gundersen, N., and **Jacobsen, E.** Use of Hyamine selective extraction agent in the spectrophot metric determination of cobalt, 3461.

Gunderson, E. L. Determination of dicofol residu in fruits and vegetables, 3058.

Gunicheva, T. N. See **Losev, N. F.,** 3977.

Gunn, E. L. X-ray fluorescence of suspend particles in a liquid hydrocarbon, 1310.

Gunther, F. A. See **Hearth, F. E.,** 1749, and **O** **D. E.,** 1807.

Gupta, B. P. See **Katyal, M.,** 2679.

Gupta, G. C. See **Malik, W. U.,** 1177.

Gupta, G. N. Combustion in plastic bags for rad assay of tritium, carbon-14 and sulphur-35 biological, biochemical and organic materials, 35

Gupta, G. S. Photometric micro-determination calcium in plasma and other biological flui 1542.

Gupta, K. C. See **Bose, S.,** 3014.

Gupta, O. P. See **Tandon, J. P.,** 2585.

Gupta, P. K. See **Verma, M. R.,** 1338.

Gupta, P. L., and **Kumar, P.** Gas-chromatograp estimation of individual xylene isomers straight-run naphtha cuts boiling up to 150°, 14

Gupta, S. B. Separation of anthocyanins a anthocyanidins in *Medicago* by TLC, 3720.

Gupta, S. C., and **Chetal, U.** Determination aconitic acid, 1722.

Gureev, E. S., Islamov, T., Lobanov, E. M., Miransk **I. A.,** and **Khaidarov, A. A.** Neutron-activati determination of rhenium in molybdenum co centrates, 153.

— See also **Abdullaev, A. A.,** 566.

Gurevich, V. T. See **Kolesnikova, L. P.,** 3534.

Guri, C. D., and **Cole, L. J.** Determination urinary pyrimidines after X-irradiation, 1631.

Guseinov, A. G. See **Mekhtiev, S. I.,** 2246.

Guseinov, I. K. See **Bagbanly, I. L.,** 1370, 2629.

Guseinova, Z. A. See **Mamedov, I. A.,** 1335.

Gusev, G. P. Fluorimetric determination of mi amounts of magnesium in blood serum and uri 984. Flame-spectrophotometric micro-determi tion of calcium in blood serum and urine, 2859.

Gusev, S. I., and **Poplevina, L. V.** Photomet and extraction - photometric determinations antimony^{III} with 5-diethylamino-2-(2-pyrid azo)phenol and its bromo-derivatives, 3410.

Gustafson, R. L. See **Kunin, R.,** 677.

Gustomesova, N. N. Column-chromatograp determination of copper, 2586.

Gutenmann, W. H., and **Lisk, D. J.** Determinat of residues of uracil herbicides by GLC a evaporative co-distillation, 1795.

Guti, L. I. See **Istratescu Guti, L.**

Gutmann, V., Michlmayr, M., and **Peychal-Heili** **G.** Polarography in *NN*-dimethylacetami [I.] Alkali-metal ions and ammonium ion, II. Alkaline-earth-metal cations, 1357.

Gutnikova, R. I. See **Mechos, Kh. Z.,** 866.

Gutteridge, D. H. See **Curnow, D. C.,** 2861.

Gutteridge, J. M. C. Indication of increased urin excretion of 3-*O*-methylated catecholamines of (4-hydroxy-3-methoxyphenyl)ethanediol TLC, 411. Investigation of abnormal urin catecholamine-metabolite patterns by TLC, 36

erson, M. See **Ma, T. S.**, 677.
n, K. C., and **Eroglu, L.** Identification of
got alkaloids by TLC, 1113.
nd **Tekinalp, B.** Identification of tranquillisers
d antidepressive drugs by TLC, 486. Identi-
ation of barbituric acid and hydantoin deriva-
ves by TLC, 1679. Identification of strychnine,
ucine and physostigmine by TLC, 2977.
n, J. C., and **Marks, J. Y.** Spectrophotometric
termination of tungsten, as tungstate, by
teropoly-acid formation, 846.
ee also **Heller, R. L., jun.**, 729, and **Trautwein,**
L., 162, 1412.
t, A., and **Vialle, J.** Simultaneous determina-
n of traces of water and free oxygen in organic
lvents, 1431.
ot, J., and **Dejou, J.** Determination of the
ecific surfaces of clays with butane, 1946.
ot, J. C. See **Guyot-Hermann, A.**, 2974.
ot-Hermann, A., Guyot, J. C., Mulleman-Marsy,
., and **Traisnel, M.** Determination of alkaloids
suppositories: application to codeine, 2974.

H

b, W. See **Orsulak, P. J.**, 1080.
hti, E. O. A. See **Nikkari, T.**, 3665.
s, E., Gould, A. B., and **Goldblatt, H.** Deter-
ination of endogenous renin in human blood,
50.
s, H. G. See **Dambacher, M.**, 2871.
s, T. See **Lehnert, G.**, 357.
se, H. See **Birkenfeld, H.**, *Book*: Oct.
ashy, G. M., Gawargious, Y. A., and **Faltaoos,**
. N. Polarographic micro-determination of
alogens in aliphatic, aromatic and heterocyclic
rganic compounds after oxygen - flask combus-
on, 890.
ee also **Gawargious, Y. A.**, 1444.
ault, S. See **Bore, P.**, 1495.
eger, L. E. Collaborative study of a method for
e determination of weight per unit volume of
ackaged ice cream, 3037.
good, H. W. See **Ball, D. L.**, 2453.
h, J. T., and **White, E. W.** Study of extended
-ray absorption fine structure with use of thick
rgets, 1310.
kbeil, K. F. de. See **Lis, A. W.**, 1630.
ker, S. See **Liebmann, R.**, 549.
kerman, N. See **Spears, L. G.**, 1901, 2724.
jiioannou, T. P. Catalytic micro-determination
f chromium^{VI}, 2710.
jivassiliou, A. G., and **Rieder, S. V.** Enzymic
ssay of pyruvic and lactic acids, 387.
orn, H., and **Zuercher, K.** GLC examination
f fats and oils. IV. Catalytic hydrogenation as
id to identification and determination of un-
aturated fatty acids, 532. GLC determination of
utyric acid, and assessment of butter fat content
f foodstuffs, 3820.
rich, I. See **Timar, M.**, 1555.
zija, O. Simultaneous micro-determination of
arbon, hydrogen and sulphur in organic com-
ounds, 1437.
zistelios, I. See **Grimanis, A. P.**, 819.
ntzsch, S. Irregular behaviour of aliphatic
mines in GLC, 909.
rtel, A., and **Lang, H.** Systematic errors in the
etermination of enzymes, 1313.
upke, K. See **Schwachula, G.**, 610.
an, J. J., and **Dallam, R. D.** Measurement of
rginase activity, 452.

Hagen, D. F., Biechler, D. G., Leslie, W. D., and **Jordan, D. E.** Controlled deactivation - hydrolysis and determination of aluminium in alkylaluminium compounds, 2805.
Hagen, E. Identification and separation of isomeric aliphatic plasticisers by their urea inclusion compounds, 3595.
— See also **Carpov, A.**, 3179, and **Helmstedt, M.**, 2847.
Hagenfeldt, L. GLC determination of organic acids in blood, 3656.
Hagenmaier, H. See **Bayer, E.**, 1313.
Hahn, H. See **Lorenz, W.**, 1313.
Hahn, H.-G. See **Lehmann, G.**, 1313, 2406.
Hahn, H. H. See **Pretorius, V.**, 1237, 1848, 1867.
Hahn, K. J., Tuma, D. J., and **Sullivan, J. L.** Continuous radiochemical separation of copper, magnesium, zinc and manganese in biological materials, 1534.
Hahn, L. H., and **Pauling, L. E.** Determination of impurities in bromine by i.r. spectrometry, 2099.
Hahn, R. B., and **Klein, H. C.** Amine - cobalt^{II} ferrocyanide compounds as ion exchangers, 2476.
— See also **Marsh, R. H.**, 120.
Haigh, R. W. Determination of the moisture content of sheet material, 3585.
Haindl, H. See **Mayer, D.**, 1313.
Haines, R. J. See **Sterling, K. J.**, 3222.
Hair, M. L. See **Filbert, A. M.**, 612, 1249.
Hakanson, R. See **Aures, D.**, 414, 1313.
Haken, J. K., and **Werner, R. L.** Analysis of poly(vinyl acetate) - acrylate copolymers by low-temperature i.r. spectrometry, 2841.
Hakkila, E. A., Hurley, R. G., and **Waterbury, G. R.** Solvent extraction - X-ray spectrometric measurement of microgram quantities of tantalum in high-purity silver, 739.
Haldar, B. C. See **Nadkarni, R. A.**, 3457.
Haljamae, H., and **Larsson, S.** Ultra-micro flame photometer for potassium and sodium analyses in single cells and nanolitre amounts of biological fluids, 3608.
Hall, G. S., and **Laidman, D. L.** Determination of tocopherols and isoprenoid quinones in the grain and seedlings of wheat, 3833.
Hall, H. H. See **Shotwell, O. L.**, 1781.
Hall, R. J. Determination of fluorine compounds in biological materials, including soils, 3096.
Hallaways, I. See **Green, A. G.**, 1595.
Haller, W. A. See **Perkins, R. W.**, 1.
Halls, D. J., Townshend, A., and **Zuman, P.** Polarography of sulphur-containing compounds. XII. Monoalkyldithiocarbamates: their anodic waves and reactions with heavy metals, 268; XIII. Anodic waves of dialkyldithiocarbamates, 912; XIV. Anodic waves of ethylenebisdithiocarbamate and reactions with heavy metals, 1191. Polarographic determination of dithiocarbamates and their heavy-metal complexes, 1190.
Halova, D. See **Ivanov, V. M.**, 2153.
Halter, D. See **Dreux, C.**, 1051.
Hamada, M. See **Chubachi, M.**, 2150.
Hamada, T., Omori, S., Kameoka, K., Horii, S., and **Morimoto, H.** Direct determination of rumen volatile fatty acids by gas chromatography, 379.
Hamaguchi, H. See **Tomura, K.**, 1376.
Hambleton, L. G. Review of and recommended changes in the flame-photometric determination of potassium in fertilisers, 3102.
Hamet, M. See **Cartier, P.**, 1654.
Hamilton, E. I. See **Cleary, J. J.**, 995.
Hamilton, P. B., and **Cook, C. E.** Bioautography of antimicrobial substances on thin-layer chromatograms, 2981.

Hamlin, W. B. See **Olson, A. D.,** 3611.
Hamm, R., and **Schneider, F.** Determination of glucono-δ-lactone in meat products and additives, 3799.
Hamman, B. L., and **Martin, M. M.** Spectrophotometric determination of 17-oxosteroids on thin-layer chromatograms, 2918.
Hammer, R. N. See **Anderson, M. L.,** 1926.
Hammerstein, J., and **Zielske, F.** Determination of pregnanediol in urine, 1313.
Hammond, E. W. See **Morris, L. J.,** 251.
Hammond, J. E., and **Herbst, E. J.** TLC separation of polyamines, 415.
Hammond, K. B. See **Leach, H.,** 2920.
Hammond, M. W. See **Chissick, S. S.,** 662.
Han, J. See **McCarthy, E. D.,** 3496.
Hance, R. J. See **McKone, C. E.,** 3849.
Hancock, R. L. GLC behaviour of silylated derivatives of nucleosides and nucleotides, 3725.
Hanegraaff, C. See **Le Perdriel, F.,** 1135.
Hanewald, K. H., Mulder, F. J., and **Keuning, K. J.** Analysis of fat-soluble vitamins. IX. TLC assay of vitamin D in high-potency preparations, 3752.
— See also **Buisman, J. A. K.,** 3752.
Hankinson, R. W., Johnnie, D. H., Ives, B. F., and **Burnet, G., jun.** Butane-nitration-product analysis by on-line multiple-column gas chromatography, 1448.
Hankonyi, V., and **Karas-Gasparec, V.** Absorptiometric determination of glucose with potassium ferricyanide, 1014.
Hann, C. S. See **Coulter, J. R.,** 3698.
Hanna, Z. G. See **Kabiel, A. M.,** 2279.
Hanneman, W. W., and **Robison, L. L.** Determination of isocyanatobenzene and chlorobenzene in crude bis-(4-isocyanatophenyl)methane, 970.
Hannig, K., and **Wirth, H.** Electronic densitometer for fast quantitative interpretation of electropherograms and free-flow electrophoresis runs, 1313.
Hanok, A. Manual for laboratory clinical chemistry, *Book*: Sept.
Hansen, H. J. M. Simultaneous quantitation of carbon-14-labelled cholesterol and individual long-chain fatty acids by paper chromatography, 1588.
Hansen, H. L., and **Andresen, K.** Calculation of the retention time of the 'air peak' in gas chromatograms, 1256.
Hansen, L. B. GLC separation of thyroid hormones, 3754.
Hansert, E. Tests of randomness and their use as tests against trend, 1312.
Hanson, C., Patel, A. N., and **Chang-Kakoti, D. K.** Separation of *o*- and *p*-chlorotoluene by solvent extraction, 273.
— See also **Anwar, M.,** 1481.
Hanson, W. G., and **Sargent, B. W.** Photopeak efficiency of a well-type scintillation detector, 670.
Hanya, T. See **Ogura, N.,** 574.
Hara, K. See **Tomura, T.,** 1310.
Hara, M. See **Akaiwa, H.,** 2122.
Hard, T. M., and **Lord, R. C.** Double-beam, high-resolution spectrometer for the far-i.r. region, 1293.
Hardie, D. I. See **United Kingdom Atomic Energy Authority,** 3201.
Harding-Barlow, I. See **Peppers, N. A.,** 3192.
Hardman, R. See **Blunden, G.,** 1671.
Hardwick, A. J. See **Stanton, R. E.,** 500.
Hardy, S. M. Limited function automation in the clinical pathology laboratory, 1313.
Hargis, L. G. Turbidimetric determination ammonia with 12-molybdophosphoric acid, 139
Harik, R. I. See **Khuri, R. N.,** 3233.
Harkness, L. See **Saur, W. K.,** 375.
Harlestam, R. See **Bergrahm, B.,** 3974.
Harlow, G. A., and **Morman, D. H.** [Analytic reviews, 1968]—Titrations in non-aqueous s vents, 677.
Harn, L. S. See **Campbell, A. D.,** 2772.
Haro, M. S. See **Mottola, H. A.,** 1953.
Harrar, J. E. See **Perone, S. P.,** 1924.
Harris, C. I. User problems with a comput program for automated chromatographic analys 1309.
Harris, W. C. See **Papa, L. J.,** 1817.
Harris, W. E. See **Ball, D. L.,** 2453, **Dean, J.** 3242, and **Sutton, R.,** 3942.
Harris (Holdings) Ltd., Philip. pH and redox mete 3230.
Harrison, C. See **Martin, L. E.,** 2315.
Harrocks, T. L., jun. Conception and design of Bio Cal automatic amino-acid analyser, 1309.
Hartenstein, R. See **Rolle, W.,** 765.
Hartley, A. M., Hiebert, A. G., and **Cox, J.** Preparation and properties of a platinum-bas mercury-film electrode, 1923.
Hartley, F. R., and **Inglis, A. S.** Determination metals in wool, 2234.
Harvey, C. E. Emission-spectrochemical anal of sub-milligram samples, 1890.
Harzdorf, C. Determination of cyanide, cyanate a carbonate in admixture, 791.
Harzer, K., Waessle, W., Sandhoff, K., and **Ja kewitz, H.** Densitometric micro-determination lipids after TLC of the total-lipid extract, 1313
— See also **Sandhoff, K.,** 1026.
Hashimoto, H. See **Sakurai, K.,** 2982.
Hashimoto, Y. See **Yanagisawa, S.,** 1948.
Hashmi, M. H., Adil, A. S., Chughtai, N. A., Chugh F. R., and **Shahid, M. A.** Identification of twe amino-acids by circular TLC, 419.
— **Ajmal, A. I.,** and **Rashid, A.** Spectrophotome determination of nitrogen in small quantities biological materials, 2870.
— **Chughtai, F. R., Chughtai, N. A., Rashid, A.,** a **Shahid, M. A.** Semi-quantitative determinat of micro amounts of iron, copper, cobalt, ni and zinc in blood and tissue by circular TLC, 28
— **Chughtai, N. A.,** and **Shahid, M. A.** Identificat of sugars by circular TLC, 2793.
— **Rashid, A., Ali, S.,** and **Ehsan, A.** 4,4′-Eth denebis-(3-methylisoxazolin-5-one) as colorime reagent for determination of palladium uranium, 1426.
— **Rashid, A.,** and **Malik, Fazal-ur-Rehman.** R test for ferrous ions, 2732.
— **Shahid, M. A.,** and **Chughtai, F. R.** Determi tion of copper, cobalt and nickel by circ TLC, 26.
Haskell, B. E. See **Raines, R. C.,** 2342.
Hasztar, H. See **Groszkowski, S.,** 1145, 1146.
Hatcher, D. W., sen. See **Schall, E. D.,** 3107.
Hatton, W. E. See **Dow Chemical Co.,** 3926.
Hauck, G. Determination of elements of t cological importance in biological material X-ray fluorescence, 1313. Detection and de mination of drugs containing bromine in bl urine and tissue, 2280.
Hauptmann, R. See **Wolf, F.,** 1967.
Haus, J. B., and **Manolev, L.** Collaborative st of u.v. spectrophotometric determination 1,2-methylenedioxy-4-[2-(octylsulphinyl)prop benzene in formulations, 1813.
Haussler, A. See **Salim, E. F.,** 1143.

vas, J., Papp, E., and **Pungor, E.** Direct measurement of anions. II. Analytical applications of membrane-electrodes selective for bromide and chloride, 3435.
verback, B. J. See **Rinderknecht, H.,** 3735.
vlena, E. J., jun., and **Hutchinson, K. A.** GSC determination of argon, oxygen and nitrogen, 3287.
wkes, G. L. See **United Kingdom Atomic Energy Authority,** 863.
wley, W. G. See **Bennett, H.,** *Book*: Sept.
worth, C. W. See **Friskney, C. A.,** 3980, 3981.
worth, D. T., and **Boeckeler, R. H.** Fluorimetric detection and determination of zinc and cadmium, 0.
and **Zetlmeisl, M. J.** TLC of inorganic cobalt complexes on microcrystalline cellulose, 869.
wthorn, D., and **Ray, N. J.** Determination of low concentrations of sodium in water by using a sodium-ion-responsive glass electrode, 578.
y, D. R., Skogerboe, R. K., and **Scala, E.** Electron-beam zone purification and analysis of tungsten, 3431.
yamizu, K. See **Yamamoto, O.,** 226.
yano, S., Nihongi, T., and **Asahara, T.** TLC analysis of poly(oxyethylene) nonylphenol ether non-ionic surfactant, 1494.
yashi, Y. See **Yamamoto, Yuroku,** 1948, 2101.
yatsu, R. See **Studier, M. H.,** 1447.
yden, A. L., Brannon, W. L., and **Craig, N. R.** Micro-extraction technique with compounds isolated from thin-layer chromatograms, 1862.
yes, D. J. Sensitivity of the thermistor katharometer gas-detector, 3904.
yes, J. M., and **Biemann, K.** High-resolution mass-spectrometric investigations of the organic constituents of chondrites, 203.
yes, O. B. Studies in qualitative inorganic analysis. XXXII. Systematic detection of chlorate and perchlorate, 1411.
yward, F. W., Grierson, W., and **McCornack, A. A.** Colorimetric determination of s-butylamine in citrus fruit and air, 527.
ywood, B. J. Electrophoresis technical applications: bibliography of abstracts, *Book*: Nov.
Starkweather, W. H., Spencer, H. H., and **Zarafonetis, C. J.** Electrophoretic separation of glucose-6-phosphate dehydrogenase from human erythrocytes with agar gel, 445.
adridge, J. B. Electrochemical techniques for inorganic chemists, *Book*: Nov.
and **Lambert, A. K.** Spectrographic determination of nickel in molten steel, 867.
aley, P. J. Colorimetric determination of serum aspartate aminotransferase activity, 1096.
arst, J. E., and **Gray, H. B., jun.** Titanium centre-pieces and modified temperature-control system for the Spinco analytical centrifuge, 3915.
arth, F. E., Ott, D. E., and **Gunther, F. A.** Oscillopolarographic determination of parathion and its metabolites, paraoxon and *p*-nitrophenol in fortified canned peaches following TLC, 1749.
athcote, A. System for protecting variable-temperature NMR probes against damage by overheating, 648.
aton, R. C. See **Martin, J. M.,** 2828.
cker, J. C. See **Eastman Kodak Co.,** 1858.
ckles, J. S. See **Quinn, E. J.,** 332.
ckman, M. Collaborative study for the determination of minerals in feeding-stuffs by atomic-absorption spectrophotometry, 3105.
der, G. See **Franzke, C.,** 1175.
dley, A. Determination of trace amounts of chromium by stable-isotope dilution and mass spectrometry, 1407.
Hedvig, P., and **Zentai, G.** Microwave study of chemical structure and reactions, *Book*: Nov.
Heeschen, J. P. [Analytical reviews, 1968]—NMR spectrometry, 677.
Hegesh, E., Calmanovici, N., and **Avron, M.** Determination of reduced NAD: methaemoglobin reductase in erythrocytes, 3728.
Heiden, D. A. van der, Triet, A. J. van, and **Faber, A.** Automated simultaneous determination of creatinine and urea in serum and urine, 2318.
Heimes, H.-T. See **Braun, D.,** 3528.
Heims, K. O. See **Franzke, C.,** 3082.
Hein, W., Schneider, H., and **Schumann, H.** Determination of nitrogen and oxygen in uranium nitride, 2039.
Heinerth, E. Determination of traces of arsenic in sulphur, 2704. Determination of complexans in detergents, 3577.
— See also **Reid, V. W.,** 1499.
Heinrich, K. F. J. Common sources of error in electron-probe micro-analysis, 1310.
— See also **Fitzgerald, R.,** 634.
Heinz, F. Enzymic determination of fructose 1-phosphate, 2904.
Heinz, W. See **Moeken, H. H. P.,** 1329.
Heinze, G. See **Feist, U.,** 3565.
Heitz, W., and **Coupek, J.** Gel chromatography. V. Dependence of separation efficiency on experimental conditions, 3925.
Hekal, I. See **Gorbach, G.,** 3088, 3831.
Held, A. M. See **Woodriff, R.,** 1314.
Helger, R. See **Kraffczyk, F.,** 1313.
Hellams, K. L. See **Durig, J. R.,** 2183.
Hellberg, H. Separation of penicillins by paper and thin-layer chromatography, 1675.
Heller, F. P. See **Amchem Products, Inc.,** 2683.
Heller, R. L., jun., and **Guyon, J. C.** Spectrophotometric determination of copper, 729.
Helling, C. S., and **Bollag, J.-M.** Micro-determination of catechols as lead salts by i.r. spectrometry, 3533.
Hellma G.m.b.H. See **Hellma G.m.b.H. & Co. K.-G.,** 1282, 1285, 4002.
Hellma G.m.b.H. & Co. K.-G. Jacketed cell for photometric and/or spectrophotometric measurement, 1282. Apparatus for passing gas through a liquid in a spectrophotometer cell, 1285. Glass flow-through cell for photometric and/or spectrophotometric examination of liquids, 4002.
Hellstroem, K. See **Eneroth, P.,** 3681.
Helm, R. V., and **Petersen, J. C.** Compositional studies of an asphalt and its molecular-distillation fractions by NMR and ir. spectrometry, 2218.
Helmstedt, M., Schroeder, E., and **Hagen, E.** Analysis of anti-static materials in plastics, 2847.
Helvig, R. J. See **Jensen, R. E.,** 51.
Hempenius, W. L., and **Liska, B. J.** Determination of volatile acids in cultured dairy products, 512.
Hende, A. van den. See **Vanderdeelen, J.,** 2177.
Henderson, E. G. See **Walkenstein, S. S.,** 1933.
Henderson, W., Wollrab, V., and **Eglinton, G.** Identification of steroids and triterpenes from a geological source by capillary GLC and mass spectrometry, 2827.
Hendra, P. J., and **Loader, E. J.** Routine frequency calibration of helium - neon laser-excited Raman spectrophotometers, 3198.
Heneage, P. See **Manning, D. C.,** 3282.
Hengy, H. See **Preussmann, R.,** 2798, 2799.
Henke, G., Westerboer, S., and **Portheine, H.** Determination of mercury in blood, urine and renal biopsy material by neutron activation, 1543.
Henke, J. See **Gorbach, G.,** 3088.
Henner, J. See **Dieterle, P.,** 381.

Hennig, I. See **Siemroth, J.,** 3582.
Hennings, P. See **Liebmann, R.,** 549.
Henningson, R. W. Collaborative study of the thermistor cryoscopic method for the determination of the freezing-point value of milk, 3029.
Henrion, G., and **Pungor, E.** Precipitation titrations in non-aqueous solvents: determination of cation content of alkali-metal and alkaline-earth-metal salts, 2574.
Henrion, P. See **Boulet, R.,** 936.
Henry, S. Detection and determination of fluorine in foodstuffs, 501.
Hensley, M. D. See **Padayatty, J. D.,** 1100.
Herb, S. F. GLC of lipids, carbohydrates and amino-acids, 2.
— See also **Luddy, F. E.,** 3819.
Herbert, W. See **Babad, H.,** 1809.
Herbst, E. J. See **Hammond, J. E.,** 415.
Herd, J. K. Identification of acid mucopolysaccharides by micro-electrophoresis, 1016.
Herman, H. B. See **Das Gupta, V.,** 2367.
Hermanek, S., Gregor, V., and **Plesek, J.** Chemistry of boranes. XII. TLC of derivatives of 1,2-dicarbadodecaborane(12) on silica gel, 2212.
Hermann, T. See **Pawelczyk, E.,** 2975.
Hermann, T. S., and **Post, A. A.** Determination of traces of indole and 2-phenylphenol by direct aqueous-injection GLC, 3874.
— See also **Netzel, D. A.,** 2210.
Hermansky, M., and **Vondracek, M.** Automatic analysers: review, 1843.
Herp, A. See **Fabianek, J.,** 1647.
Herriman, L. See **Kviesitis, B.,** 3013.
Herrmann, R., and **Lang, W.** Atomic-absorption and flame-emission spectrophotometry in trace analysis of biological materials, 1.
Herrmann, W. L. See **McRoberts, J. W.,** 2311.
Herz, J. E., and **Gonzalez, E.** Steroid boranes. II. Characterisation of cholestanols and cholestanones by TLC and GLC, 1029.
Hesford, J. R. See **Wilburn, F. W.,** 1936.
Heslop, R. B. See **Ellis, D. R.,** 1463.
Hess, J. W. See **Kojima, J.,** 2346.
Hesse, G., Engelhardt, H., and **Kaltwasser, R.** Thin-layer materials for water-soluble substances, 3936.
— and **Geller, K.** Determination of nucleotide-phosphorus by Hurst's method with use of a stannous chloride - hydrazine sulphate reagent, 1637.
Hessel, D. W. Determination of lead in blood, 2869.
Hester, R. E. [Analytical reviews, 1968]—Raman spectrometry, 677.
Hetman, J. S. Determination of uranium in rocks by cathode-ray polarography, 1381. Potentiometric determination of iron in silicate rocks, 1392. Determination of sulphide by cathode-ray polarography, 1405.
Hetnarska, K. See **Krol, Z.,** 2204.
Hetzer, H. B., Robinson, R. A., and **Bates, R. G.** Conventional pa_H values for buffer solutions of piperazine phosphate from 0° to 50°, 7.
Heumann, W. R., Bouchard, A., and **Rochon, F. D.** Alkalimetric determination of traces of water and other weakly acid components by *N*-lithioethylenediamine, 3312.
Heuser, S. G., and **Scudamore, K. A.** Fumigant residues in wheat and flour: solvent extraction and GLC determination of bromomethane or ethylene oxide, 1192. GLC determination of residual acrylonitrile, carbon disulphide, carbon tetrachloride and 1,2-dichloroethane in cereals after fumigation and in flour, 3857.
Heydorn, K. Improvement of accuracy by multipl carrier addition followed by re-irradiation yiel determination in determination of arsenic i biological material, 1.
Heyer, W. See **Wolf, F.,** 3951.
Heykoop, K. See **Day, G. T.,** 787.
Heylen, J. B. See **Masschelein-Kleiner, L.,** 1502.
Hickey, L. G. Determination of silver in fine silve bullion by atomic-absorption spectrophotometry 2594.
Hicks, S. E., and **Carey, F. G.** Glucose determinatio in sea-water and other natural waters, 3879.
— See also **Vaccaro, R. F.,** 3880.
Hiddleston, J. N. See **Fleischmann, M.,** 2519.
Hiebert, A. G. See **Hartley, A. M.,** 1923.
Higginbotham, G. R., Ress, J., and **Firestone, I** Collaborative study of screening method fo chick oedema factor in fats and fatty acids, 311
Higgins, R. J., and **Chang, Y. K.** NMR probe for us in superconducting solenoids, 1295.
Higuchi, H. See **Tomura, K.,** 1376.
Hiiro, K. See **Yamamoto, Yuroku,** 2440.
Hilding, A. C. See **Cowles, E. J.,** 2316.
Hill, H. A. O. See **Firth, R. A.,** 2343.
Hill, H. D., Summer, G. K., and **Waters, M. I** Automated fluorimetric assay for alkaline pho phatase by using 3′-*O*-methylfluorescein pho phate 3732.
Hill, H. M., and **Brown, R. H.** [Analytical review 1968]—Statistical methods in chemistry, 677.
Hill, R. R. See **Campbell, N. C. G.,** 230.
Hill, W. N. See **Love, T. A.,** 671.
Hillmann, G. See **Weidemann, G.,** 1313.
Himuro, I. See **Sekiguchi, K.,** 4031.
Hindmarsh, K. W. See **Coutts, R. T.,** 1485.
Hingle, D. N., Kirkbright, G. F., and **West, T.** Determination of beryllium by thermal-emissi and atomic-fluorescence spectrophotometry in separated nitrous oxide - acetylene flame, 3331.
Hinse, C. M. See **Lupien, P. J.,** 3738.
Hinton, R. E. See **Hively, R. A.,** 1258.
Hirokawa, K., and **Saito, A.** Unusual fluorescen X-ray intensity variation in some aluminiu and magnesium alloys, 1367.
Hirs, C. H. W. See **Alonzo, N.,** 1602.
Hirschmann, R. P., and **Mariani, T. L.** Synthe diamond as adsorbent for corrosive gases GSC, 160.
Hirshman, J. L., and **Ma, T. S.** Microchemi investigation of medicinal plants. III. T seeds of the catalpa tree, 468.
Hislop, J., and **Cooke, I. J.** Use of anion-exchan resin for assessing soil phosphate status, 541.
Hites, R. A., and **Biemann, K.** Mass spectromete computer system particularly suited to g chromatography of complex mixtures, 3227.
Hively, R. A., and **Hinton, R. E.** Variation of t retention index with temperature on squala substrates, 1258.
Hjelm, M. Quality control of automated analyti systems in clinical chemistry, 1312.
H.M. Factory Inspectorate. See **Department Employment and Productivity** [U.K.].
Hoang Phi, P. See **Pham Hoang Phi.**
Hobart, E. W. See **Kallmann, S.,** 844.
Hobe, D. von. See **Illing, G.,** 2249.
Hobo, T. See **Araki, S.,** 2189.
Hocquellet, P. Determination of lysine in food, 17
Hodenberg, A. von. See **Preussmann, R.,** 27 2799.
Hodge, T. W. See **United Kingdom Atomic Ener Authority,** 3201.
Hoeller, P., and **Slickers, K.** Spectroscopic det mination of 5 to 50 p.p.m. of boron in steel, 1

elscher, I. See **Diemair, W.**, 334.

elzel, W. See **Zawta, B.**, 1854.

erhammer, H. P., jun. See **Wagner, Hildebert,** 2360.

erhammer, L., Wagner, Hildebert, Seitz, M., and **ejdelek, Z. J.** Evaluation of garlic preparations. . TLC examination of natural constituents of *llium sativum* L., 3755.

err, C. W., and **Paulicka, F. R.** Use of X-ray iffraction in studies of crystallography of mono-cid saturated triglycerides, 1.

evet, S. P., Viswanathan, C. V., and **Lundberg, V. O.** Fractionation of a natural mixture of lkenyl acyl- and diacyl-choline phosphatides by rgentation adsorption TLC, 1027.

See also **Viswanathan, C. V.**, 1028, 1585.

t, L. See **Radin, N. S.**, 10.

fer, A. Spectrophotometric determination of hodium in platinum concentrates, 1425.

ffman, C. A. See **Emerson, D. E.**, 716.

ffman, C. M., Brunelle, R. L., Pro, M. J., and **Martin, G. E.** Determination of trace component distribution in illicit spirits, 1774.

ffmann, B. Detection of oestrogens on paper and thin-layer chromatograms, 1034.

ffmann, D., and **Rathkamp, G.** Chemical studies on tobacco smoke. V. Determination of chlorinated aromatic hydrocarbon insecticides in cigarette tobacco and its smoke, 3637.

and **Woziwodzki, H.** Chemical studies on tobacco smoke. IV. Determination of free non-volatile atty acids in tobacco and its smoke, 2295.

ffmann, H. H., Liebermeister, H., Schmitt, H., Grueneklee, D., and **Daweke, H.** Strip test for blood-sugar determination, 2902.

ffmann, R. L., and **Bitner, E. D.** Gas-flow meter adapted from a leak detector and potentiometer, 3172.

fmann, W., and **Ostromow, H.** Analytical recommendations of the Rubber Committee of the German Ministry of Health on rubber, rubber chemicals and vulcanisates in relation to the food laws, 2850.

gan, V. D., and **Taylor, F. R.** Determination of free magnesium by a combination of hydrogen evolution and GSC, 2262.

gye, I. See **Inczedy, J.**, 2473.

hmann, J. R. See **Moody, J. E., jun.**, 1122.

kin, L. E. See **Kline, M. H.**, 1103.

kin, M. R. See **Sandhu, R. S.**, 1640.

lden, G. R. See **Bowditch, D. C.**, 1318.

lder, F. C. Adaptation of a Potter-type homogeniser for use with very small quantities of biological material, 3136.

ldham, B. R. See **National Research Development Corporation**, 3882.

ldridge, D. A. See **Walker, E. G.**, 2139.

lland, W. J., and **Bozic, J.** Spectrophotometric determination of cobalt with di-2-pyridyl ketoxime, 3462.

Bozic, J., and **Gerard, J.** Di-2-pyridyl ketoxime as reagent for gravimetric determination of palladium, 3473.

and **Gerard, J.** Gravimetric determination of gold with di-2-thienyl ketoxime, 1352.

lliday, A. G. See **Clapperton, J. F.**, 1765.

lman, R. T. See **Sun, K. K.**, 2.

lmes, J. See **Cherry, J.**, 789.

lt, B. D. See **Goodspeed, H. T.**, 697.

ltz, A., and **Dreumel, H. J. van.** Stabilisation of azobilirubin solution by EDTA, 1628.

ltz, H. See **Ebel, S.**, 2371.

Holzapfel, H., Guertler, O., and **Tempel, B.** Polarographic determination of molybdenum in presence of other metals, 841.

— and **Schoene, K.** Polarographic determination of free and combined sulphur in petrol, 941.

Hom, F. S. See **Chafetz, L.**, 2388.

Homberg, E. See **Seher, A.**, 3825.

Honda, M. [Annual review, 1968]—Chemical analysis for extra-terrestrial materials, 1948.

Honey, R. C. See **Peppers, N. A.**, 3192.

Hong, C. C., and **Rapson, W. H.** Analyses for chlorine dioxide, chlorous acid, chlorite, chlorate and chloride in composite mixtures, 2096.

Hong, W.-H., and **Connors, K. A.** Spectrophotometric determination of aliphatic amines by acylation with cinnamic anhydride, 2176.

Honigberg, I. L. See **Das Gupta, V.**, 2367.

Hood, L. V. S., and **Winefordner, J. D.** TLC separation and low-temperature luminescence measurement of mixtures of carcinogens, 3553.

Hooser, G. E. See **Zanin, S. J.**, 799.

Hoover, W. E., Ginn, M. E., and **Jungermann, E.** Automated determination of free alkalinity or acidity in soap, 314.

Hopkins, C. Y. High-resolution NMR spectroscopy and some examples of its use, 2.

Hoppe, U. See **Wilk, M.**, 1313.

Horecker, B. L. See **Brand, K.**, 1313.

Horgan, E. D. See **Curnow, D. C.**, 2861.

Horiguchi, T. See **Miyakawa, T.**, 2059.

Horii, S. See **Hamada, T.**, 379.

Horikoshi, I. See **Sekiguchi, K.**, 4031.

Horimoto, Y. See **Nishi, S.**, 2185.

Horler, D. F. Gel filtration on Sephadex LH-20: general clean-up method for pesticides extracted from grain, 1798.

Horning, E. C. See **Casparrini, G.**, 1587, **Horning, M. G.**, 3658, and **Maume, B.**, 1116.

Horning, M. G., Boucher, E. A., Moss, A. M., and **Horning, E. C.** GLC study of derivatives of acids of the Krebs cycle and related compounds, 3658.

— See also **Casparrini, G.**, 1587.

Hornsby, J. B. See **England, E. A. M.**, 219.

Horowitz, J. H. See **Cante, C. J.**, 2432.

Horton, A. A. Preparation of reduced cytochrome *c*, 1650.

Horwitz, J., Strickland, E. H., and **Kay, E.** Increased resolution of circular dichroic spectra by using a computer of average transients, 1916.

Hosogaki, R. See **Takagi, M.**, 3792.

Hoste, J. See **Ballaux, C.**, 831, **Boeck, R. de**, 2057, **Boyadzhov, I.**, 151, **Corte, F. de**, 2561, **Dams, R.**, 1364, **Gijbels, R.**, 2758, **Massart, D. L.**, 1395, 2640, **Neve, R. de**, 113, **Pauwels, M.**, 3374, **Vochten, R. F. C.**, 472, and **Winkel, P. van den**, 1, 3277.

Hosterman, J. W. Use of diffracted-beam monochromator in X-ray diffraction studies of clay minerals, 2762.

Houtman, J. P. W. See **Kooten, W. J. van**, 1.

Houtman, R. L., Kaiser, D. G., and **Taraszka, A. J.** GLC determination of lincomycin, 1121.

Houvras, Y. See **Epstein, E.**, 1885.

Howard, H. E. See **Snyder, L. R.**, 2217.

Howard, J. W., Fazio, T., and **White, R. H.** Collaborative study of determination of benzo[*a*]pyrene in smoked foods, 1727.

Howard, O. H. Simultaneous determination of uranium, its isotopes and α-activity in urine by mass spectrometry, 988.

— **Langdon, A.,** and **Sulfridge, C.** Cartridge-type vacuum lock for a thermal-ionisation mass spectrometer: determination of relative isotopic ratios of potassium, 48.

Howse, D. C., and **Wherrett, J. R.** Occurrence of inosine in unwashed lipid extracts of tissue, 440.
Hoyle, W. C. See **Schilt, A. A.**, 3445.
Hrdina, J. See **Ceskoslovenska Akademie Ved**, 1230, 1283, 1284, 3918.
Hrivnak, J. See **Palo, V.**, 1156.
Hseu, T.-M., and **Rechnitz, G. A.** Study of a sulphide-ion-selective membrane-electrode in alkaline solution, 2081. Study of a perchlorate-ion-selective membrane-electrode, 3236.
Hsieh, S. See **Crocket, J. H.**, 2568.
Hsiu, H.-C., Huang, J.-T., Shih, T.-B., Yang, K.-L., Wang, K.-T., and **Lin, A. L.** TLC of alkaloids on polyamide, 1662.
Huang, J.-T. See **Hsiu, H.-C.**, 1662.
Huang, W. Y. Determination of urinary oestriol, 1036.
Hubbard, A. T., and **Anson, F. C.** Mercury electrode for thin-layer electrochemistry, 658.
Huber, C. O., and **Smith, K. E.** Titration of amides by chlorination with constant-current potentiometry, 1457.
Huber, J. F. K. See **Veening, H.**, 2085.
Huber, W. Quantitative evaluation of paper and thin-layer chromatograms by means of a cathode-ray polarograph, 3153.
Huber-Schausberger, I. See **Schroll, E.**, 1386.
Hudson, H. E., and **Pearson, B.** Determination of traces of methallibure in pig meal, 1792.
Hudson, J. B. See **Byrom, P.**, 3193.
Huebner, H. See **Lange, P. W.**, 2238, and **Rolle, W.**, 765.
Huebner, R. Measurement of the concentration of combustible gas in an air sample, 3905.
Huebner, V. R., and **Lawson, R. H.** Performance characteristics of a new continuous-flow electrophoresis instrument, 3182.
Huehnerbein, B. See **Wolff, D.**, 3766.
Huertas, V. A. See **Almagro Huertas, V.**
Huettemann, R. E. See **Shroff, A. P.**, 1708.
Huettenrauch, R., and **Keiner, I.** Separation of ascorbic acid and dehydroascorbic acid on polyamide layers, 441.
Hufenreuter, W. See **Hellma G.m.b.H. & Co. K.-G.**, 1282, 1285, 4002.
Huffman, E. H. See **Clem, R. G.**, 1428.
Hughes, B. P. Effect of haemolysis on serum creatine kinase activity, 3731.
Hughes, D. W. See **Genest, K.**, 3763.
Hughes, E. E., and **Dorko, W. D.** Mass-spectrometric determination of low concentrations of carbon dioxide in nitrogen, 808. Mass-spectrometric determination of atmospheric carbon dioxide, 1815.
Hughes, R. C. See **Mavrodineanu, R.**, 3208.
Huguet, J. S. See **Solans Huguet, J.**
Hujiwara, S. See **Tanaka, H.**, 2124.
Hultz, J. A. See **Smith, J. F.**, 1220.
Humblet, L. See **Markl, P.**, 783, 810.
Hume, D. N. [Analytical reviews, 1968]—Polarographic theory, instrumentation and methodology, 677.
— See also **West, C. D.**, 155.
Humme, G. See **Walisch, W.**, 2779.
Hummel, R. See **Crummett, W.**, 677.
Hundere, I. See **Eschrich, H.**, 790.
Hung, H. L. See **Brown, E. R.**, 4021.
Hunt, E. C. R. New approach to X-ray spectrography, 185.
Hunt, F. C. TLC of 3-methylbenzothiazolin-2-one hydrazone derivatives of aliphatic aldehydes, 1453.
Hunt, J., and **Cleaver, T. J.** Sampler and sample-presentation apparatus for, *e.g.*, a flame photometer, 1842.
Hunt, J. A. Continuous-flow monitor system fo detection of u.v. absorption, carbon-14 an tritium in effluent from a chromatographi column, 1644.
Hunt, R. J. See **Jenkins, A.**, 3945.
Hunt, S. See **Ayad, S. R.**, 587, and **Bonsall, R. W.** 3923.
Hunter, D. T. See **Knight, J. A.**, 2347.
Hurley, P. W. See **Jenkins, R.**, 638.
Hurley, R. G. See **Hakkila, E. A.**, 739.
Husain, S. GLC separation of chlorocresols an chloroxylenols, 278.
Husain, W. See **Qureshi, M.**, 3397.
Husdan, H., and **Rapoport, A.** Estimation c creatinine by the Jaffe reaction: comparison c three methods, 412.
Hutchinson, K. A. See **Havlena, E. J., jun.**, 328
Hvolby, A. See **Nielsen, V. R.**, 2535.
Hyde, A. F., and **Redford, R. A.** Controlled-tempe ature cold trap, 3916.
Hyden, H., and **Lange, P. W.** Micro-electrophoreti determination of protein in the 1 to 100-nanogra range, 2943.
Hygstedt, O. See **Ohman, R.**, 2293.

I

Ichida, T., and **Nobuoka, M.** Determination total and direct bilirubin in normal human seru with improved 'alkaline azobilirubin blue' metho 2335.
Idel, A. See **Unterman, H. W.**, 1119.
Iftode, M. See **Ionescu Nipal, F.**, 1201.
Igloy, M., and **Mizsei, A.** Investigation of pol myxin E derivatives by TLC: correction, 1677.
Ignat, V., and **Constantinescu, T.** Determination pyrazinamide in pharmaceutical products, 114
Ignatenko, E. G., and **Kovalenko, P. N.** Dete mination of titanium, copper and iron by linea sweep chronoamperometry, 33.
Iguchi, S. See **Goto, Shigeru**, 1473.
Iida, C., and **Nagura, M.** Determination of nick in silicates by atomic-absorption spectrophot metry, 2048.
Iijima, H. K. Use of two types of freeze-dryi flasks incorporating filters, 1840.
IJsseling, F. P., and **Dalen, E. van**, Potentiomet titrations with ion-exchange membrane-electrod II. Theoretical treatment of the effect of me brane selectivity, 666.
Ikeda, H. See **Nambara, T.**, 1591.
Ikeda, R. M. See **Levins, R. J.**, 2458.
Ikekawa, N., Watanuki, R., Tsuda, K., and **Sakai,** Correlation between molecular structures sterols and their GLC retention times, 2306.
Ikels, K. G., and **Neville, J. R.** Improved G system for multi-gas analysis, 1222.
Ikonnikova, A. I. See **Beksheneva, N. M.**, 3592.
Ilca, S., Dodica, C., and **Ioanovici, Z.** Removal interfering urinary chromogens in the det mination of pregnanediol, 1313.
Iliescu, V. See **Popa, G.**, 693.
Il'in, N. P. See **Blokhin, M. A.**, 3.
Il'ina, V. A. See **Gal'pern, G. M.**, 961.
Illing, G., and **Hobe, D. von.** Manometric det mination of very small amounts of water in hi polymers, 2249.
Il'yasova, N. V. See **Alekseeva, V. M.**, 2075, a **Rusanov, A. K.**, 2669.
Imai, H., and **Yamashita, K.** [Annual review, 19 —Electroanalysis, 1948.
— See also **Yamashita, K.**, 2699.

namura, S. Modified Silber - Porter determination of prednisolone 21-(hydrogen succinate) (sodium salt) in brain tissue, 2885.

nanari, T. See **Matsui, Michio,** 3508.

nangazieva, G. See **Kupec, J.,** 1261.

nre, L. See **Neszmelyi, A.,** 646.

namdar, P. K. See **Gore, T. S.,** 2784.

nczedy, J., and **Hogye, I.** Use of ion exchangers in organic solvents. II. Swelling and functioning properties of macro-porous ion-exchange resins, 2473.

- and **Pasztler, E.** Use of ion exchangers in organic solvents. I. Swelling and salt splitting in non-aqueous media, 1260.

nglis, A. S. See **Hartley, F. R.,** 2234.

nglis, N. R., Ghosh, N. K., and **Fishman, W. H.** Sephadex G-200 gel electrophoresis of human-serum alkaline phosphatases, 448.

ngram, D. J. E. Biological and biochemical applications of ESR, *Book*: Nov.

ngram, G. See **Belcher, R.,** 216.

nouye, K. See **Knight, D. M.,** 296.

nozemtseva, I. I. See **Trakhtenberg, D. M.,** 3746.

nskip, E. B. See **Cochran, E. M.,** 2352.

nstitut de Recherches de la Siderurgie Francaise. Device for continuous determination of oxygen in a liquid metal, 3910.

nstitute of Brewing Analysis Committee. Estimation of bitterness of beer, 3072.

nstitut Metallofiziki Akademii Nauk Ukrainskoi SSR. Device for differential thermal analysis, 1934.

nstytut Chemii Fizycznej Polskiej Akademii Nauk. Operation of an electronic spectrophotometer, 3216.

International Union of Pure and Applied Chemistry. Standardisation of determinations of the alcohol content of beverages and distilled potable spirits, 3076.

Ioanovici, Z. See **Ilca, S.,** 1313.

Iofa, B. Z. See **Szirtes, L.,** 622.

Ionescu, M., Farcasan, M., and **Panea, J.** Thermal micro-analysis of binary systems of aromatic nitro-derivatives, 3544.

Ionescu, T. D., and **Tudorache, G.** Use of inorganic synthetic ion exchangers. II, 2475.

Ionescu Nipal, F., Iftode, M., Legun, I., and **Duluta, V.** Absorptiometric determination of acrylaldehyde in air, 1201.

Ionova, L. V. See **Dement'eva, E. N.,** 1092.

Iordanov, N., and **Futekov, L.** Improved specific separation of selenium by solvent extraction with ketones, 3423.

Iordanov, S. D., and **Ivanov, Ch. P.** Colorimetric ultra-micro determination of sulphur in organic compounds by desulphurisation with Raney nickel and transformation into methylene blue, 2147.

Irurre-Perez, J. See **Sanz-Burata, M.,** 2790.

Irving, H. M. N. H. General graphical method for evaluating experimental results represented by a linear equation, 1317.

— and **Nabilsi, A. H.** Extraction of copper^{I}, lead^{II} and tin^{IV} from hydrochloric acid medium by solutions of tetrahexylammonium chloride in dichloroethane, 2556. Extraction of copper^{II} from hydrochloric acid medium by solutions of tetrahexylammonium chloride in dichloroethane, 2591.

Irwin, G. M. See **Swintosky, J. V.,** 1691.

Isaeva, A. B., and **Bogoyavlenskii, A. N.** Determination of nitrate in sea-water by reduction to nitrite with cadmium amalgam, 1210.

Isaeva, B. I. See **Lebedeva, M. I.,** 1337.

Isagai, Kazuyo. See **Isagai, Kiyoharu,** 1989.

Isagai, Kiyoharu, and **Isagai, Kazuyo.** Spectrophotometric determination of copper with 4-phenyl-2-(2-pyridylmethyleneamino)phenol, 1989.

Isaicheva, L. V. See **Umilin, V. A.,** 1517.

Isenhour, T. L. See **Kowalski, B. R.,** 3253.

Ishibashi, N., Kohara, H., and **Abe, K.** Spectrophotometric determination of molybdenum^{VI} by extraction of the molybdenum^{VI} - Alizarin red S complex with a quaternary ammonium chloride, 2088.

Ishida, K., Kiriyama, T., and **Kuroda, R.** Separation of platinum and palladium from base metals with a weakly basic cellulose ion exchanger, 2759.

— See also **Kuroda, R.,** 3275.

Ishida, T., and **Bigeleisen, J.** Greaseless valve for use in mercury reservoirs, 584.

Ishii, T., Musha, S., and **Munemori, M.** Determination of zinc in lubricating oils by atomic-absorption spectrometry, 2222.

Ishii, Y., Kawamura, Hajime, and **Yagi, S.** X-ray fluorescence analysis of organic-solvent-type preservatives in wood, 2233.

Islamov, T. See **Gureev, E. S.,** 153.

Ismailov, A. I. See **Sadykov, A. S.,** 3772.

Ismailov, M. N. See **Snisarenko-Los'eva, L. P.,** 900.

Israelstam, G. F. See **Green, W. G. E.,** 1641.

Israili, A. H. See **Qureshi, M.,** 2548, 3397.

Issleib, K., Matschiner, H., and **Naumann, S.** Polarographic determination of butylchlorotin compounds, 916.

Issopoulos, P. B. Simultaneous spectrophotometric determination of traces of iron^{III} and nickel^{II}, 172.

Istratescu Guti, L. Effect on 2,6-dichlorophenol-indophenol and potassium iodate of different acid solutions used to extract ascorbic acid, 2344.

Itagaki, Y. See **Sasaki, Shin-ichi,** 1913.

Ito, T., and **Kenjo, T.** Properties of anion exchanger containing di-π-cyclopentadienylcobalt^{III} cations, 623; 3972.

Ito, Yohei. See **Satoh, P. S.,** 1657.

Ito, Yuki, Nozawa, Y., and **Yoneya, T.** Pigment patterns of dermatophytes on thin-layer chromatograms, 3719.

Ivanfy, A. B. See **Pakalns, P.,** 807.

Ivanov, A. A. See **Merlis, V. M.,** 2353.

Ivanov, Ch. P. See **Iordanov, S. D.,** 2147.

Ivanov, N. P., and **Kozyreva, G. V.** Applications of electrodeless lamps in atomic-absorption spectrophotometry, 29.

Ivanov, V. M., Halova, D., and **Sommer, L.** Purity control of heterocyclic azo-dyes used as spectrophotometric reagents and metallochromic indicators by titration of azo-groups with chromium^{II}, 2153.

— See also **Busev, A. I.,** 873, 2754.

Ivanova, V. N. See **Zaikovskii, F. V.,** 1972.

Ivanovskii, M. N., Pavlova, G. D., Shmatko, B. A., Milovidova, A. V., Konovalov, E. E., Arnol'dov, M. N., and **Pleshivtsev, A. D.** Determination of hydrogen impurity in sodium heat-transfer agent by thermal dissociation of the hydride, 45.

Ivantsov, L. M., and **Lebedev, V. I.** Improved selectivity and sensitivity of flame spectrophotometry, 3199.

— See also **Belyaev, Yu. I.,** 3, 3281, and **Vul'fson, E. K.,** 794.

Ivashina, V. A. See **Lel'chuk, Yu. L.,** 115.

Ivashkiv, E. Separation and determination of polymyxin B in formulations, 1118.

Ives, B. F. See **Hankinson, R. W.,** 1448.

Ives, N. F. See **Klein, A. K.,** 2895.

Iwachido, T. See **Motomizu, S.,** 2438.

Iwasaki, I. See **Arikawa, Y.**, 2703.
Iyer, S. G., Krishnan, C. V., and **Venkateswarlu, C.** Ion-exchange separation of alkali-metal ions from multivalent cations and their determination in silicate ores, 1975.
Izawa, M. See **Kawamura, S.**, 19.
Izzo, P., and **Procaccio, P.** Spectrophotometric and automated densitometric determination of haemoglobin A_2, 1626.

J

Jacin, H., and **Moshy, R. J.** Characterisation of hemicelluloses in tobacco stems, 3649.
— **Slanski, J. M.**, and **Moshy, R. J.** Determination of free sugars in tobacco, 1013. Determination of nicotine in tobacco and in particulate matter of tobacco smoke by GLC, 1600. Determination of 5-hydroxymethyl-2-furaldehyde by GLC, 3556.
Jackel, C. See **Poethke, W.**, 2543.
Jackman, L. M., and **Sternkell, S.** Applications of NM Rspectroscopy in organic chemistry, *Book*: Nov
Jackman, M. I. See **Gas Council** [U.K.], 3908.
Jackson, J. A., and **Langham, W. H.** Whole-body NMR spectrometer, 1294.
Jackson, M. See **McManus, I. R.**, 1063.
Jackson, M. M. Collaborative study of a spiral vessel count method for estimating shell in the chocolate component of cocoa, 1758.
Jackwerth, E. Studies on the concentration of trace elements by precipitation of the major constituent. II. Selective concentration of traces of selenium, by using lead sulphate, in determination of selenium in lead and copper, 145.
Jacobi, W., Eichler, J., and **Stolterfoht, N.** Particle size spectrometry of aerosols by light scattering in a laser beam, 4039.
Jacobs, S. Determination of amino-acids by ion-exchange resin chromatography, 1309.
Jacobs, W. L. W., and **Zondag, H. A.** Screening test for the evaluation of thyroid function, 1062.
Jacobsen, C. D. Proteolytic capacity in human plasma. I. Determination of proteolytic activity in the presence of natural inhibitors and study of the inter-individual variations, 2971.
Jacobsen, E. See **Gundersen, N.**, 3461.
Jacobson, H. Biochemical analysis with ion-specific electrodes, 2856.
Jacquemin, R. See **Puymbroeck, S. van**, 1.
Jacyk, A. See **Wawrzyczek, W.**, 2635.
Jadamec, J. R., and **Andersen, N. R.** Emission intensity of caesium in flames of various gas compositions, 2582.
Jadot, J. See **Michaux, R.**, 1469, 2299.
Jaeger, W. See **Reinisch, G.**, 1509.
Jaensch, P. See **Dickens, P.**, 183.
Jain, M. C. See **Saxena, R. S.**, 843.
Jain, M. K., and **Bindal, M. P.** Chemistry of ghee flavours. I. Isolation and characterisation by TLC, 1160.
Jain, S. C. See **Kar, K. R.**, 1361.
Jakovljevic, I. M. See **Templeton, R. J.**, 2386.
Jakubiec, R. J., and **Boltz, D. F.** Indirect determination of vanadium by atomic-absorption spectrophotometry, 134.
James, D. B., Powell, J. E., and **Burkholder, H. R.** Displacement ion-exchange separation of ternary rare-earth-metal mixtures with chelating eluents, 2023.
James, D. W., Leong, W. H., and **Buur, H. J.** Sampling techniques for the Perkin-Elmer model LR-1 laser Raman spectrometer, 1893.
James, G. E., and **Pardue, H. L.** Analogue computer for reaction-rate analysis, 1236.
James, V. H. T. See **Townsend, J.**, 1041.
Janak, J., Svojanovsky, V., and **Dressler, M.** Analytical performance of an all-glass coupled flam ionisation - sodium thermionic detector, 615.
— See also **Onuska, F.**, 290, and **Rabbani, G. S. M.** 3165.
Janardhan, P. B. See **Paul, A.**, 1985.
Janda, I. See **Schroll, E.**, 1386.
Janik, A., and **Czechowicz, D.** Spectrophotometri determination of the composition of ethylene-styrene copolymers, 3588.
Jannasch, H. W. See **Vaccaro, R. F.**, 3880.
Janoski, E. J. See **Warren, R. W.**, 929.
Janovic, Z. J. See **Cernicki, B. K.**, 329.
Janssen, G. See **Evrard, E.**, 407.
Jantos, N. See **Moellmann, H.**, 1313.
Jaques, L. B., Ballieux, R. E., Dietrich, C. P., an **Kavanagh, L. W.** Micro-electrophoretic determination of heparin, 1571.
Jardetzky, O. See **Markley, J. L.**, 1313.
Jarecki, H. J. See **Zettner, A.**, 981.
Jaros, J., Maly, R., and **Radil, V.** Determination o small amounts of titanium in ores with diantipyrinylmethane, 2677.
Jarvis, D. See **Mizuno, G.**, 620.
Jarzynska, M. See **Proskurowska, I.**, 2819.
Jaselskis, B. See **Krueger, R. H.**, 3315.
Jasinski, R. See **Burrows, B.**, 1922.
Jasinskiene, E. I., and **Bilidiene, E. B.** Use o carboxylic acids for determining traces of chromium^{VI} by a kinetic method, 2084.
Jatzkewitz, H. See **Harzer, K.**, 1313, and **Sandhoff, K.**, 1026.
Jaulmes, P. See **Gagnaire, D.**, *Book*: Sept.
Jaworski, E. G. See **Van Deren, J. M., jun.**, 1558.
Jaworski, M., and **Bogaczek, J.** Continuous amperometric determination of acrylaldehyde with use of solid electrodes, 2245.
Jedrychowska, M. See **Szynagel, P.**, 1248.
Jeffs, K. A., Lord, K. A., and **Tuppen, R. J.** Determination of insecticides on single seeds treated with liquid dressings, 1799.
Jehle, D. See **Woggon, H.**, 3830.
Jellinek, G. See **Malissa, H.**, 1315.
Jenaer Glaswerk Schott & Gen. See **Carl-Zeiss Stiftung**, trading as **Jenaer Glaswerk Schott & Gen.**
Jeney, A., jun. See **Walthier, J.**, 493.
Jeney, E., and **Walthier, J.** Thin-layer chromatographic identification of 3,4,4′-trichlorobenzenesulphonanilide, 491.
Jenkins, A., and **Hunt, R. J.** Automated gas-chromatographic injection system for solid samples, 3945.
— See also **Pye, W. G., & Co. Ltd.**, 1243.
Jenkins, F. P. See **Wilkinson, J. H.**, 444.
Jenkins, R., and **Hurley, P. W.** Escape-peak interference in X-ray spectrochemical analysis, 638.
Jenkinson, D. S. Tests for potentially available nitrogen in soil, 539. Titrimetric determination of total sulphur in mineral soils, 3836.
Jennings, A. C., Pusztai, A., Synge, R. L. M., and **Watt, W. B.** Fractionation of plant material. III. Two chemical fractionations of fresh leaves for isolation of the bulk protein, 1614.
— See also **Gallus, H. P. C.**, 3018.
Jensen, G. D. See **Dutton, G. G.**, 3504.
Jensen, H. B. See **Poulson, R. E.**, 3152.
Jensen, R. E., Bergman, N. C., and **Helvig, R. J.** Determination of copper^{II} as its complex with quinoline-2-aldehyde 2-quinolylhydrazone, 51.
— **Langsjoen, A., Lewandowski, R.**, and **Bortz, J.** Spectrophotometric determination of low-molecular-weight dextran in blood, 2890.

entoft, R. E., and **Gouw, T. H.** Use of a high-resolution liquid chromatograph, 1845.
equier, W., and **Robin, J.** Use of lightly-loaded and so-called inert supports in GLC, 3943.
erman, R. I., and **Carpenter, L. R.** Analysis of gaseous products from the pyrolysis of solid municipal waste by GSC, 2446.
ermany, D. A. See **Pollock, G. E.**, 3506.
ernejcic, M., and **Premru, L.** Pyrolysis - gas chromatography of natural rubber and synthetic polyisoprene, 342.
– See also **Dolinar, J.**, 343.
erumanis, J. See **Clerck, J. de**, 1766.
ervis, R. E. Use of activation analysis in forensic science, 1.
– and **Wong, K. Y.** Chromatographic group-separation scheme used with gamma-ray spectrometry for multi-element activation-analysis surveys, 1.
esson, J. P., and **Muetterties, E. L.** Chemists' Guide, *Book*: Sept.
imenez, A. T. See **Travesi Jimenez, A.**
imenez Seco, J. L. See **Gomez Coedo, A.**, 2744, 3349.
Jitsugiri, Y. See **Noshiro, M.**, 2770.
Joaquina Silverio, M. See **Silverio, M. J.**
Job, B. E. See **Emmerson, J. D.**, 2515.
Joergensen, J. P., and **Veilby, K. H.** Practical problems in hop and hop-extract analysis, 1759.
Joergensen, K. Electronic data processing and quality control, 1312.
Johnnie, D. H. See **Hankinson, R. W.**, 1448.
Johns, E. W. Starch-gel electrophoretic demonstration of the effect of pH on the aggregation of arginine-rich histones, 423. Differentiation of histone fractions by starch-gel electrophoresis, 1623.
Johnsen, R. E. See **Starr, R. I.**, 2425.
Johnson, A. R. Collaborative study of the determination of the 'lead number' of vanilla extract by complexometric titration, 3052.
— See also **Fernandez-Flores, E.**, 3048.
Johnson, C. See **Ragelis, E. F.**, 1752.
Johnson, D. P. Spectrophotometric determination of oximes and unsubstituted hydroxylamine, 264.
Johnson, G. E. See **Pugsley, T. A.**, 2938.
Johnson, G. G., jun., and **Vand, V.** Computerised multi-phase X-ray powder diffraction identification system, 1310.
Johnson, G. W. See **Billmeyer, F. W., jun.**, 1882.
Johnson, H. A. Helium enclosure for increasing detectability with an X-ray diffractometer, 2481.
Johnson, M. J. Automated titration of nanomole amounts of acids eluted from liquid-chromatography columns, 3513.
Johnson, P. G. See **Carver, R. D.**, 1314.
Johnson, S. A. See **Chang, C. M.**, 1082.
Johnston, G. F. See **Abraham, M. H.**, 3342.
Johnston, H. S. See **Eyring, H.**, *Book*: Nov.
Johnston, K. M., **Stern, D. J.**, and **Waiss, A. C., jun.** Separation of plant flavonoid compounds by gel filtration, 430.
Jolley, R. L., and **Freeman, M. L.** Automated carbohydrate analysis of physiological fluids, 2290.
Jones, A. See **Judson, G.**, 590.
Jones, C. See **Szivek, J.**, 2498.
Jones, C. O. See **Cook, W. S.**, 2248.
Jones, F. T., and **Lee, K. S.** Optical and X-ray crystallographic data of aflatoxin M_1 isolated from urine or milk, 1574.
Jones, G. A. See **Sutcliffe, R. A.**, 3130.
Jones, J. C. H. Spectrophotometric determination of tin in lead and in antimonial lead alloys, 798.
Jones, J. D. See **Parups, E. V.**, 3848.
Jones, J. T. See **Wood, D. F.**, 139.
Jones, L. N., **Seidman, M.**, and **Southworth, B. C.** Quantitative determination of stilboestrol by TLC, 1141.
Jones, P. R. See **Phillips, J. P.**, *Book*: Oct.
Jones, T. P. See **Dulcie, W. L.**, 3631.
Jones, W. B., and **Carpenter, R. A.** Non-dispersive X-ray fluorescence spectrometer, 1310.
Jones, W. T. See **England, E. A. M.**, 219.
Jonsson, M., and **Pettersson, E.** Isoelectric focusing of plant pigments, 1071.
Jonsson, R. Separation and identification of some naturally occurring alkylphenanthrenes in pine tar, 1507.
Jordan, D. E. See **Hagen, D. F.**, 2805.
Jordan, J. Determination of lead in food-grade phosphates and phosphoric acid by atomic-absorption spectroscopy, 2688.
Jork, H. See **Struck, H.**, 3677.
Josefsson, E. Determination of *p*-hydroxybenzyl isothiocyanate in digests of seed meal of *Sinapis alba* L., 1788.
Joshi, M. V. See **Dhumwad, R. K.**, 3376.
Joshi, R. G. See **Viswanadham, C. R.**, 2673.
Joshi, V. K., and **Ganguli, N. C.** Turbidimetric determination of proteose-peptone, proteose and peptone in milk, 1157.
Jovanovic, S., and **Reed, G. W.** Determination of mercury in metamorphic rocks, 68.
Jowitt, H. Cold-packing of gas-chromatography columns with PTFE supports, 2459.
Joy, A. S. See **Kini, K. A.**, 2140.
Joyce, Loebl & Co., Ltd. Improved chemical sampling methods, 3900. Improved automatic spectrophotometers, 4000.
Joye, D. D., and **Axtmann, R. C.** Use of the Mossbauer effect in corrosion studies, 1419.
Judd, G., and **Ansell, G. S.** Effect of micro-segregation on the observed intensity in thin-film micro-analysis, 1310.
Judson, G., **Jones, A.**, **Kellogg, R.**, **Buckner, D.**, **Eisel, R.**, **Perry, S.**, and **Greenough, W.** Operation of a closed continuous-flow centrifuge, 590.
Juhos, E. T. See **McEwen, C. R.**, 2263.
Julia-Arechaga, S. See **Sanz-Burata, M.**, 2790. chromatography, 2159.
Jun, H. W., and **Triggs, E. J.** Determination of chlorphentermine in urine by GLC, 3628.
Juneau, M. See **Guilbault, G. G.**, 2291.
Jungermann, E. See **Hoover, W. E.**, 314.
Jungner Instrument AB. Apparatus for coulometric titration of flowing fluids, 1928.
Jungnickel, F. Use of *Candida utilis* for the location of stable phosphate compounds on chromatograms, 1634.
Junkova, I. See **Matrka, M.**, 3539.
Jurczyk, H.-U. See **Rotzsche, H.**, 3486.
Jurecek, M., and **Kozak, P.** Analytical aspects of the oxidation of organic nitrogen compounds with chromic acid. XIV. Micro-determination of nitro- and amino-groups, 218.
— See also **Kozak, P.**, 218.
Jurion, R. Determination of the chief elements in plants, 2265.
Jursik, F. Separation of *cis*- and *trans*-isomers of trisglycinatocobalt^{III} by TLC, 1479.
— and **Petru, F.** Electrophoretic behaviour of copper^{II} histidinate in the presence of the other copper^{II} chelates of amino-acids, 1058.
Jutson, J. A. See **Francis, J. M.**, 3455.

Juvet, R. S., jun., and **Dal Nogare, S.** [Analytical reviews, 1968]—Gas chromatography, 677.

K

Kabannik, G. T. See **Popova, O. I.**, 2713.

Kabiel, A. M., and **Boutros, C. H.** Measurement of the apparent band-width parameters of an i.r. absorption band, 1288.

— **Hanna, Z. G.**, and **Youssif, Y. S.** Spectrochemical determination of nanogram amounts of cobalt in blood, 2279.

Kachlik-Olasinska, B., and **Wojdala, T.** Chromatographic determination of trace amounts of carbon monoxide in hydrogen from the catalytic reforming process, 2214.

Kacl, K. See **Miketukova, V.**, 991.

Kaczmarek, F. See **Adamska, M.**, 1115.

Kaden, W. See **Ackermann, G.**, 53.

Kaderavek, G., and **Prati, F.** Spectrophotometric methods for the determination of vitamins B_1 and B_2 in cheese, 515.

Kadlecova, L. See **Kyrs, M.**, 725.

Kadoum, A. M. Rapid sample clean-up for GLC determination of organic pesticides in ground water, soil, plant and animal extracts, 1828. Clean-up procedure for water, soil, animal and plant extracts for the GLC determination of organophosphorus insecticide residues with electron-capture detection, 3866.

Kagarlitskii, A. D. See **Serazetdinova, V. A.**, 931.

Kahan, I. L., and **Szepesy, G. L.** TLC behaviour of urobilinoid pigments, 1627.

Kahlke, W., and **Schlierf, G.** Comparison of paper electrophoresis and agarose gel electrophoresis for the differentiation of hyperlipoproteinaemias, 429.

— See also **Rapp, W.**, 428.

Kahn, H. L. Background-compensating system for atomic-absorption spectrophotometry, 1275.

— **Peterson, G. E.**, and **Schallis, J. E.** Atomic-absorption micro-sampling with the 'sampling boat' technique, 1274.

— See also **Schallis, J. E.**, 3569, 3996.

Kahovcova, J., and **Ranny, M.** Determination of unbranched aliphatic alcohols in the presence of alkylbenzenes in the unsulphonated portion of anionic surfactants by means of urea adducts, 952.

Kai, F. Reaction between mercury^{II} and organic compounds. IV. Photometric method for the determination of basic amino-acids precipitated with mercury^{II} perchlorate, 1057.

Kaigorodov, V. A. See **Karyakin, A. V.**, 111.

Kainz, G., and **Wachberger, E.** Use of a thermal-conductivity detector in the exit-gas stream in the micro-determination of carbon and hydrogen in organic compounds, 211. Determination of carbon in alloy steel by oxidation and measurement of thermal conductivity, 1421. Determination of traces of chlorine in petroleum by combustion and potentiometric titration in a non-aqueous medium, 1487.

Kaiser, D. G. See **Houtman, R. L.**, 1121.

Kaiser, R. Temperature-gradient chromatography. I. Reversion gas chromatography, 3168.

— See also **Kienitz, H.**, 1316.

Kajdas, C., and **Tuemmler, R.** Electron-attachment mass-spectrometric investigation of solid saturated hydrocarbons from slack wax, 939.

Kaji, K. See **Narasaka, H.**, 2240.

Kajtar, J., and **Kajtar, M.** Determination of the amino-nitrogen content of γ-glutamyl peptides by a modified Van Slyke procedure, 1611.

— See also **Kutassy, S.**, 3705.

Kajtar, M. See **Kajtar, J.**, 1611.

Kalab, M., and **Martin, W. G.** Gel filtration o native and modified pig-serum lipoproteins, 2947

Kaliberdo, L. M., and **Vaabel', A. S.** GLC determination of olefin oxides with up to four carbon atoms in mixtures with aldehydes, 233.

Kalinchuk, S. V. See **Usenko, L. E.**, 2053.

Kalinin, A. I., **Kuznetsov, R. A.**, and **Osipchuk, I. L** Ion-exchange behaviour of arsenic in hydrofluoric acid media, 3409.

Kalinina, N. N. See **Nefedov, V. D.**, 2662.

Kalinina, V. E. See **Yatsimirskii, K. B.**, 2569.

Kalinowska, Z. E., and **Golec, Z.** Alkalimetric semi-micro determination of 5-allyl-5-(2-hydroxypropyl)barbituric acid, in substance or in tablets in non-aqueous medium, 1128. Semi-micro bromimetric determination of 5-allyl-5-(2-hydroxypropyl)barbituric acid, 3759.

Kalinowski, K., and **Olech, A.** Coulometric determination of papaverine hydrochloride with Reinecke salt, 459.

Kallmann, S., **Hobart, E. W.**, and **Oberthin, H. K** Application of modified counter-current extraction to the determination of tungsten in molybdenum, 844.

Kalontarov, I. Ya. See **Pachadzhanov, D. N.**, 2089.

Kalous, J. See **Kozak, P.**, 218.

Kalsi, P. S. Applications of spectroscopy to structure determination. II. Infra-red spectra of alkyl esters of terpenecarboxylic acids and acetates of terpene alcohols, 3555.

Kalt, M. B., and **Boltz, D. F.** Ultra-violet spectrophotometric determination of cadmium, cobalt, bismuth or molybdenum by the tetramethylene-dithiocarbamate method, 1969.

Kaltwasser, R. See **Hesse, G.**, 3936.

Kalugin, A. A. See **Korenman, I. M.**, 1470.

Kalvius, G. M. See **Sprouse, G. D.**, 1311.

Kamada, H., and **Furuya, K.** Comparison of metal-bath techniques in vacuum-fusion analysis by an isotope-dilution method, 1424.

— See also **Furuya, K.**, 181, and **Nihei, Y.**, 1900.

Kamaeva, G., **Talipov, Sh. T.**, and **Dzhiyanbaeva, R. Kh.** Absorptiometric determination of copper with 5-amino-2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]phenol, 52. Use of 5-amino-2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]phenol as indicator for EDTA determination of copper, 726.

— See also **Pakanaev, Ya. I.**, 1325.

Kamalyan, G. A. See **Ermolenko, I. N.**, 54.

Kamata, E. See **Furukawa, M.**, 3311.

Kambara, T., and **Saitoh, K.** Derivative gas chromatography applied to the micro-determination of the poorly resolved component, 2468.

Kamenev, A. I., and **Granovskii, Yu. V.** Choice of optimum conditions for polarography by the Box - Wilson method, 660.

— See also **Alimarin, I. P.**, 770.

Kameoka, K. See **Hamada, T.**, 379.

Kaminski, B. Universal device for reading R_F values on thin-layer chromatograms, 1240.

Kamokina, Z. F. See **Trakhtenberg, D. M.**, 3746.

Kamp, P. E., and **Wit, W. M. de.** Detection of poisonous constituents of *Amanita phalloides*, 3692.

Kamzolkin, V. V. See **Kolesnikova, L. P.**, 3534.

Kancheva, D. See **Kradakov, B.**, 2736.

Kania, K. See **Gregorowicz, Z.**, 2211.

Kanno, T. See **Saito, M.**, 1948.

Kanski, R., **Wdowin, A.**, and **Zielenski, K.** Gas-chromatographic determination of aldehydes and alcohols in the products of hydroformylation of olefins. I, 2215.

Kapisinska, V. Quantitative and qualitative determination of antioxidants of the bisphenol type, 2258.

Kapitsa, N. V., and **Zhdanov, A. K.** Successive amperometric titration of mixtures of cations containing zirconium and other metal ions, 3307.

— See also **Zhdanov, A. K.**, 3298, 3299, 3303.

Kaplan, A. See **Ahuja, J. N.**, 2945.

Kaplan, G. B. See **Moody, J. E., jun.**, 1122.

Kaplan, M. L. See **Babko, A. K.**, 67.

Kaplar, L. See **Mazor, L.**, 3968.

Kaplin, A. A., and **Trushina, L. F.** Means of increasing sensitivity of anodic-stripping voltammetry, 1925.

Kaplin, V. T., and **Semenchenko, L. V.** GLC determination of monohydric phenols in natural water, 572.

— See also **Perel'shtein, E. I.**, 568, **Semenchenko, L. V.**, 571 and **Shaova, L. G.**, 570.

Kapustsik, A. See **Abdullaev, Kh.**, 1383.

Kar, K. R., and **Singh, G.** Concentration and determination of traces of arsenic^{V} and phosphorus^{V} in aqueous solutions or natural water, 1400.

— **Singh, G.**, and **Jain, S. C.** Chemical and radiochemical separation of strontium and yttrium by precipitation of strontium on barium sulphate, 1361.

Karadakov, B., **Kancheva, D.**, and **Nenova, P.** Spectrophotometric study of the reaction of iron^{III} with methylthymol blue, 2736.

Karalova, Z. K., **Shibaeva, N. P.**, and **Pyzhova, Z. I.** Separation of uranium^{VI} from uranium^{IV} on sulphonated cation-exchange resins with various divinylbenzene contents, 2652.

Karapetyan, E. T. Determination of nickel present as sulphide in sulphide ores and concentrates, 3469.

Karas-Gasparec, V. See **Hankonyi, V.**, 1014.

Karawya, M. S., **El-Keiy, M. A.**, **Wahba, S. K.**, and **Kozman, A. R.** Determination of amphetamine, methylamphetamine and ephedrine in horse urine, 3627.

Karbainov, Yu. A. See **Stromberg, A. G.**, 24.

Karczynski, F., and **Kupryszewski, G.** Complex compounds of amino-acids and peptides with metal cations. III. Separation of mixtures of the diastereoisomeric dipeptides L-leucyl-L-phenylalanine and L-leucyl-D-phenylalanine by extraction of their complexes with copper^{II}, 1065.

Karetnikova, E. A. See **Pilipenko, A. T.**, 2136.

Karg, H. Determination of hormone residues in animal products, 1313.

— See also **Struck, H.**, 3677.

Karger, B. L., **Poncha, R. P.**, and **Miller, M. W.** Effect of hydrochloric acid concentration on the distribution factors of iron and mercury in foam separation, 853.

Karleskind, A. Application of TLC on a plate 40 cm by 20 cm to the fractionation of non-saponifiable matter, 2413.

Karpeiskii, M. Ya. See **Dement'eva, E. N.**, 1092.

Karpel', N. G., and **Fedorchuk, O. K.** Features of an arc discharge in an inert atmosphere for improving the sensitivity of determination of impurities in 'pure' materials, 16.

Karpov, O. N. Determination of unbranched alkylphenols with iodine chloride, 275. Determination of saponification values of polyesters of ethanediol and diethylene glycol with dicarboxylic acids, 2845.

Karpukhin, P. P., **Treshchilova, A. F.**, **Tret'yak, Z. A.**, and **Bodnya, V. M.** Absorptiometric determination of methylenemalononitrile in solutions obtained in its production, 906.

Karr, C., jun., and **Schultz, H. D.** Wide-line NMR spectrometry of sulphur-33 in minerals, 2080.

Karstens, H. Comparison of standard methods for the determination of phosphorus in phosphatides, 3086.

Kartashev, E. R., and **Shtan', A. S.** Continuous determination of cadmium in a flowing solution by neutron absorption, 2616.

Kartous, J. See **Dostal, P.**, 2253.

Karyakin, A. V., **Akhmanova, M. V.**, and **Kaigorodov, V. A.** Use of an optical quantum generator for spectrographic analysis of semiconductor materials, 111.

— **Laktionova, N. V.**, **Pavlenko, L. I.**, and **Simonova, L. V.** Use of purified compressed air in the arc gap for spectrographic trace determination, 1270.

— See also **Belyaev, Yu. I.**, 3281.

Karyakina, L. N. See **Korenman, I. M.**, 2203.

Karyakina, Z. See **Busev, A. I.**, 133.

Kaseda, H. See **Kido, R.**, 420.

Kashik, T. V. See **Prokop'ev, B. V.**, 254.

Kashiwa, T. See **Suzuki, K.**, 2408.

Kashlinskaya, S. E. See **Strel'nikova, N. P.**, 3471.

Kashuba, A. T. See **Skogerboe, R. K.**, 2516.

Kasiura, K. Spectrophotometric trace analysis of indium. II. Determination of gallium, molybdenum, thallium, gold and iron after isolation of their chloro-complexes by extraction, 3354.

— See also **Marczenko, Z.**, 704, and **Minczewski, J.**, 2553.

Kassau, E. Behaviour of biologically or pharmaceutically important pyrimidine derivatives on micro-sublimation, 434.

Kasten, G. See **Wiele, H.**, 144.

Katchalski, E. See **Goldstein, L.**, 1313.

Katiyar, S. S. See **Ramaiah, N. A.**, 130.

Kato, K. See **Maekawa, S.**, 2111.

Kator, W. G. See **Burroughs, J. E.**, 223.

Katsuki, H., **Yoshida, T.**, **Tanegashima, C.**, and **Tanaka, S.** Separation and characterisation of oxo-acid 2,4-dinitrophenylhydrazones, 3661.

Katsurai, T. See **Yamaguchi, S.**, 92.

Katyal, M., **Goel, D. P.**, and **Singh, Rudra P.** Iron^{III} chelation with pyridine-2,3-diol, 2734.

— **Gupta, B. P.**, **Bhardwaj, D. K.**, and **Singh, Rudra P.** Spectrophotometric determination of zirconium with quercetagetin, 2679.

Katz, A. Determination of alumina and silica in silicate rocks and minerals by atomic-absorption spectrophotometry, 108.

Katz, J. J. See **Saur, W. K.**, 375.

Katz, M. Measurement of air pollutants: guide to the selection of methods, *Book*: Sept.

Katz, S., and **Walls, H. A.** Apparatus for multi-sample thin-film dialysis, 1226.

Kaubisch, N. See **Stronski, I.**, 31.

Kaufman, J. W. See **Raley, C. F.**, 2190.

Kavanagh, L. W. See **Jaques, L. B.**, 1571.

Kawahara, F. K. Micro-determination of derivatives of phenols and thiols by electron-capture GLC, 1827.

Kawai, S., and **Tamura, Z.** GLC of catecholamines as their trifluoroacetates, 2926. GLC of catecholamines, as their trifluoroacetates, from urine and tumour tissue, 2927.

Kawamoto, H., and **Akaiwa, H.** Synergistic effect of pyridine bases on extraction of the iron^{II}-2-thenoyltrifluoroacetone complex, 3446.

— See also **Akaiwa, H.**, 164, 2122.

Kawamoto, K. See **Kiso, Y.**, 288.

Kawamoto, M. See **Kido, R.**, 420.

Kawamura, Hajime. See **Ishii, Y.**, 2233.

Kawamura, Hisao. See **Tanaka, G.**, 2272.

Kawamura, K. See **Takahashi, T.**, 2200.

Kawamura, S., Fujimoto, T., and **Izawa, M.** Chromatography of inorganic ions on cellulose acetate pre-treated paper impregnated with 2-thenoyltrifluoroacetone, 19.
Kawano, E. See **Chubachi, M.,** 2150.
Kawase, A. *o*-(2-Thiazolylazo)phenol derivatives as analytical reagents. VIII. Reaction of benzothiazolylazonaphthol with metal ions, 1964.
Kawata, H., and **Chase, M. W.** Improved flow rate with Sephadex superfine G-200 in column chromatography, 3927.
Kawauchi, A. H. See **Pollock, G. E.,** 2328.
Kay, A. I. See **Chafetz, L.,** 1136, 3532.
Kay, E. See **Horwitz, J.,** 1916.
Kaye, B. See **Berry, J. F.,** 3663.
Kaye, B. H. Automatic microscopes for the paint technologist. II. Particle system evaluation by use of the Quantimet, 4040.
Kazakov, B. I. See **Cherkesov, A. I.,** 2621.
Kazaryan, N. A. See **Bykova, L. N.,** 683, and **Kreshkov, A. P.,** 1327, 3518.
Kean, E. L. Spectrophotometric determination of sulphatides, 2303.
Keating, J. P. See **Bunnell, R. H.,** 3846.
Keay, J., Wilkie, A., and **Palm, A.** Device to convert a fraction collector for automated sampling in continuous-flow analysis systems, 592.
Keays, R. R. See **Crocket, J. H.,** 2568.
Keese, H. See **Moeken, H. H. P.,** 1329.
Keesey, J. C. Flame-photometric determination of sodium and potassium in nanogram samples of mammalian nervous tissue, 3607.
Keil, K. See **Fitzgerald, R.,** 634.
Keiner, I. See **Huettenrauch, R.,** 441.
Kekedy, L., Makkay, F., and **Dragoi, A.** Chronopotentiometric study of pre-treatment effects on graphite electrodes, 1308.
Kekeh, A. Physical methods for the separation of isotopes: review, 3273.
Kelenffy, S. TLC separation of polycyclic hydrocarbons, 291.
Kelleher, P. C., and **Smith, C. J.** Separation and identification of basic amino-acids and hexosamines, 418.
Keller, H., and **Scheurenbrand, H.** The 'Stuttart system' for automated analysis, 1313.
Keller, M. See **Uettwiller, A.,** 3679.
Kellershohn, C. See **Comar, D.,** 1.
Kelley, J. D. See **Walker, J. Q.,** 1871.
Kelley, R. N. See **Billmeyer, F. W., jun.,** 1882.
Kellner, A. See **Szekeres, L.,** 2169.
Kellner, M. See **Simon, H.,** 1313.
Kellogg, R. See **Judson, G.,** 590.
Kelly, W. G., Ranucci, S. R., and **Shaver, J. C.** Determination of hydrocortisone in man, 1040.
Kelvin, A. S. Determination of methylimidazolylacetic acids in human urine by gas chromatography, 3690.
Kemeleva, N. G. See **Songina, O. A.,** 2737.
Kemmer, J. See **Stronski, I.,** 31.
Kemmner, G. See **Krohmer, P.,** 1313.
Kempf, T. Shaker for carrying out serial analyses of anionic detergents, 3133.
Kemula, W. See **Galus, Z.,** 3246.
Kendal, A. P. Automated determination of sialic acids, 1064.
Kenjo, T. See See **Ito, T.,** 623, 3972.
Kenna, B. T., and **Conrad, F. J.** Determination of sodium in high-purity silica by neutron activation, 793.
Kennan, R. W., Schmidt, G., and **Tanaka, Teruji.** Determination of phosphatidylethanolamine and other phosphatides in rat tissues, 2305.
Kennedy, E. P. See **Diamond, I.,** 3729.
Kennedy, J. F. See **Barker, S. A.,** 1015.
Kent, B. E. See **Field, K.,** 975.
Kerbyson, J. D. See **Souza, T. L. C. de,** 2068.
Kereiakes, J. G. See **Chen, I-W.,** 1632.
Kerkhoff, J. F., and **Peters, H. J.** Determination of urobilin in urine by means of a modified Schlesinger test, 2951.
Kermoshchuk, J. O. See **Carmichael, H. T.,** 3319.
Kerr, G. T., and **Landis, P. S.** Boiling-point and melting-point micro-determination by differential thermal analysis, 2531.
Kertes, A. S. See **Marcus, Y.,** *Book*: Sept.
Kessler, G. See **Pileggi, V. J.,** 1610.
Kettenes, D. K. See **Wal, B. van der,** 530.
Kettrup, A., and **Specker, H.** Extractive separation of inorganic compounds: review, 1323.
Keul, M. See **Stanescu, G.,** 3551.
Keulemans, A. I. M. See **Walraven, J. J.,** 3174.
Keuning, K. J. See **Buisman, J. A. K.,** 3752, and **Hanewald, K. H.,** 3752.
Keyser, J. W. Determination of serum albumin, 1622.
— and **Waters, W. E.** Determination of glucose and urea in blood, 2901.
Khadeev, V. A., Krivosheina, M. V., and **Mukhamedzhanova, D.** Complexometric determination of titanium by amperometric titration with one or two indicator-electrodes, 3390.
— and **Mukhamedzhanova, D.** Use of potassium periodate in amperometric titration, 3271.
— and **Ososkova, T. O.** Biamperometric determination of potassium, 3322.
— and **Shvartskop, V. V.** Amperometric titration of manganese with EDTA with use of solid electrodes, 3438.
Khadikar, P. V. See **Mehrotra, S. N.,** 50.
Khaidarov, A. A. See **Gureev, E. S.,** 153.
Khakhlova, N. V. See **Lashko, N. F.,** 3452.
Khakimkhodzhaev, N. See **Pachadzhanov, D. N.,** 2089.
Khalifa, H., and **Ateya, B.** Applications involving the iodide ion. II. Micro-determination of oxidising agents: use of potassium iodate and periodate as primary standards for mercury^{II}, 38. Analysis of multi-component chromium mixtures, 2086.
— and **El-Barbary, I.** Application of back-titration of EDTA with mercury^{II} to the analysis of alloys. I. Analysis of bearing metal, solder, type metal and stainless steel, 32.
— and **El-Sirafy, A. A.** Spectrophotometric micro-determination of titanium or cobalt with Fast grey RA, 2058.
— **Khater, M. A.,** and **El-Sirafy, A. A.** Acid - base properties of Chromotrope 2B, 684.
Khalikov, T. See **Sattarov, M. M.,** 1430.
Khalitov, R. Sh. See **Vainshtein, E. E.,** 3285.
Khamrakulov, T. K. See **Agasyan, P. K.,** 1927, 2557, 3468.
Khan, F. See **Qureshi, M.,** 711, 802, 804.
Khan, M. A. S. See **Salam Khan, M. A.**
Khan, S. U., and **Webster, G. R.** Electrometric method for determining water-extractable sulphate in soils, 540. Determination of gypsum in solonetzic soil by an X-ray technique, 2416.
Khanna, S. S., Manchanda, M. L., and **Chopra, S. L.** Use of *NNN′N′*-tetrakis-(2-hydroxypropyl)-ethylenediamine for manganese determination in soil extract, 3838.
Kharchenko, L. V. See **Flidlider, G. V.,** 3470.

Kharkar, D. P., Turekian, K. K., and **Bertine, K. K.** Determination of silver, molybdenum, antimony, selenium, chromium, cobalt, rubidium and caesium in stream water, 569.

Khater, M. A. See **Khalifa, H.,** 684.

Khedreyarv, Kh. Kh. See **Piksarv, A. Yu.,** 3341.

Kheifets, V. I., Babukh, V. P., and **Oparina, G. K.** GLC analysis of the products of synthesis of isoprene from isobutene and formaldehyde, 1524.

Khera, A. K. See **Oeien, A.,** 1782.

Khesina, A. Ya. See **Fedoseeva, G. E.,** 3554.

Khin, L. See **Budvari, Z.,** 2389.

Khmel'nitskii, R. A. See **Tal'roze, V. L.,** 3.

Khokhlacheva, N. M. See **Filichkina, M. P.,** 766.

Khokhlov, L. M. Eriochrome cyanine R as reagent for absorptiometric determination of gallium, 76. Absorptiometric determination of traces of gallium in ores in the presence of zinc and lead, 77.

Khopkar, S. M. See **Rangnekar, A. V.,** 194, 198, 1997.

Khotimskaya, M. I. See **Kolesnikova, L. P.,** 3534.

Khramov, V. A., and **Galaev, Yu. V.** Purification of agar for protein micro-electrophoresis, 1884.

Khramov, V. P. See **Akmaeva, N. L.,** 88.

Khudyakova, T. A., and **Vostokov, V. M.** Chronoconductimetric determination of salts of weak bases containing nitrogen, 911.

Khuri, R. N. Glass micro-electrode for *in vivo* measurement of pH, 1918.

— **Agulian, S. K.,** and **Harik, R. I.** Internal capillary glass micro-electrodes with a glass seal for measuring pH, sodium and potassium, 3233.

Khurin, V. E. See **Kirichenko, E. A.,** 3294, 3394.

Khusid, L. B. See **Rubinskaya, T. Ya.,** 166.

Khvostova, V. P. See **Shlenskaya, V. I.,** 2135.

Kibbey, A. H. See **Davis, W., jun.,** 1529.

Kibisov, G. I., and **Kubasova, N. B.** Quantitative spectrographic analysis of substances of any composition. II, 2493.

— See also **Kubasova, N. B.,** 2493, and **Savel'eva, L. F.,** 1976.

Kibizov, Yu. V., and **Kuznetsova, L. I.** Determination of bis-(4-nitrophenyl) ether by i.r. spectrometry, 926.

Kickhoefen, B., and **Warth, R.** Tank for high-voltage electrophoresis by the Michl method, 625.

Kido, R., Noguchi, T., Kaseda, H., Kawamoto, M., and **Matsumura, Y.** Determination of 5-hydroxykynurenine in biological material, 420.

Kielczewski, W., and **Matusiewicz, K.** Determination of microgram amounts of magnesium by the impregnated-paper method, 3332.

Kienitz, H., and **Kaiser, R.** Data processing in analytical chemistry, 1316.

Kiermeier, F., and **Guell, J.** Determination of the β-glucuronidase activity of milk, 3036.

— and **Wigand, W.** Determination of selenium in milk, 499.

Kierzek, J. See **Akerman, K.,** 3433.

Kies, H. L., and **Os, M. den.** Polarographic determination of gold and silver in cyanide-containing plating solutions, 3329.

Kieselkalt, S. See **Batel, W.,** *Book*: Nov.

Kihara, H. K., and **Kuno, H.** Micro-assay of protein with cellulose nitrate membrane-filters, 3710.

Kijima, H. See **Masukawa, K.,** 3688.

Kilina, Z. G. See **Zakharova, E. A.,** 82.

Kim, H. H. See **Caruso, A. J.,** 3191.

Kim, Y. S., and **Zeitlin, H.** Determination of molybdenum in sea-water, 1211.

Kiminecz, R. See **Altenau, A. G.,** 239.

King, D. M., and **Eaton, W. S.** Argentimetric coulometric titration of thioacetamide, 269.

King, F. J. See **Gadbois, D. F.,** 2168.

King, P. See **Cochran, E. M.,** 2352.

King, W. H., jun., Camilli, C. T., and **Findeis, A. F.** Thin-film thermocouples for differential thermal analysis, 3256.

Kinget, R. Studies of drugs containing anthracene derivatives. XVII. Extraction - photometric determination of anthracene derivatives in *Rhamnus purshiana* bark, 467.

Kini, K. A., Manser, R. M., and **Joy, A. S.** Measurement of surface area of silicate minerals by the BET method, 2140.

Kinsella, E., and **Coward, J.** Disposable far-i.r. cells with fixed and variable path-lengths, 3223.

Kinson, K., Dickeson, J. E., and **Belcher, C. B.** Determination of metallic iron, nickel and cobalt in reduced ores and oxides, 859.

— See also **Marcec, M. V.,** 2743.

Kiper, M., and **Atay, O.** Identification and determination of dextropropoxyphene hydrochloride in a preparation containing amidopyrine, caffeine and allobarbitone, 2993.

Kirby, J. R., and **Baldwin, A. J.** Potentiometric determination of acid groups in acrylic polymers and fibres, 963.

Kirchhoff, K. See **Schultze, G. R.,** 297.

Kirchmann, R. See **Puymbroeck, S. van,** 1.

Kirchmeier, O. Determination of casein in milk, 3801.

Kireev, A. D. See **Arnautov, N. V.,** 184.

Kireev, L. G. See **Gal'pern, G. M.,** 331.

Kirgintsev, A. N., and **Gorbacheva, I. I.** Concentration of impurities during directed crystallisation, 2549.

Kirichenko, E. A., Khurin, V. E., and **Fokin, A. V.** Determination of the form of molecular compound of an element by emission-spectrographic analysis, 3294.

— **Khurin, V. E.,** and **Lokshina, S. V.** Spectrographic determination of iron and silicon in titanium^{IV} chloride, 3394.

Kirichenko, V. A. See **Levchenko, T. M.,** 1830.

Kirillova, T. V. See **Terent'ev, A. P.,** 3494.

Kiriyama, T. See **Ishida, K.,** 2759, and **Kuroda, R.,** 3275.

Kirk, A. D., Moss, K. C., and **Valentin, J. G.** Separation, identification and estimation of chromium^{III} complex ions by TLC and diffuse reflectance spectroscopy, 3425.

Kirk, W. R. See **Fish, F.,** 3757.

Kirkbright, G. F. Advances in analytical flame-emission spectrophotometry: review, 3990.

— and **Sargent, M.** Measurement of gas flow rates and calibration of flow meters for flame spectrophotometry, 3991.

— and **Saw, C. G.** Spectrofluorimetric determination of microgram amounts of lead, 2674.

— **Semb, A.,** and **West, T. S.** Spectroscopy in separated flames. III. Use of the separated nitrous oxide - acetylene flame in thermal emission spectroscopy, 1334.

— **Smith, A. M.,** and **West, T. S.** Selective amplification - titration procedure for determination of microgram amounts of phosphate, 813. Indirect amplification procedure for the determination of niobium by atomic-absorption spectrophotometry, 1402.

— and **West, T. S.** Application of separated flames in analytical flame spectroscopy, 3200.

— See also **Fleet, B.,** 2817, and **Hingle, D. N.,** 3331.

Kirkland, J. J. See **Pease, H. L.,** 3856.

Kirowa-Eisner, E., and **Mark, H. B., jun.** Amperometric titration of *o*-phenylenediamine employing catalytic electrode end-point detection, 282.

Kirshen, N. A., and **Olsen, G. H.** Gas-chromatographic bubble-gas analysis for determination of hydrazine-gel decomposition mechanism, 2684.

Kirspuu, Kh. K., and **Busev, A. I.** Analytical uses of dimethyl- and diethyl-diselenocarbamates, 2554.

Kiryushov, V. N., **Gordievskii, A. V.**, **Kolesnikov, G. S.**, **Tevlina, A. S.**, **Sividova, S. N.**, and **Sentsova, T. N.** Study of membrane ionite electrodes reversible towards hydrogen ions, 3232.

Kiselev, A. V., **Migunova, I. A.**, **Savinov, I. M.**, and **Yashin, Ya. I.** Use of graphitised carbon in gas-adsorption chromatography with temperature-programming, 3169.

— and **Yashin, Ya. I.** Gas-adsorption chromatography, *Book*: Nov.

— See also **Onuska, F.**, 290.

Kiseleva, R. A., and **Bozhko, I. G.** Paper-chromatographic determination of monocarboxylic acids in the products of liquid-phase oxidation of cyclohexane, 280.

Kiser, R. W., and **Sullivan, R. E.** [Analytical reviews, 1968]—Mass spectrometry, 677.

Kiso, Y., **Kobayashi, M.**, **Kitaoka, Y.**, **Kawamoto, K.**, and **Takada, J.** Behaviour of phenylphosphinic and phenylphosphonic acids in paper electrophoresis, 288.

Kiss, B. See **Lukacs, G.**, 4017.

Kiss, T. A. See **Stefanovic, D.**, 4023, and **Vajgand, V. J.**, 2800.

Kisser, W., and **Machata, G.** Isolation, identification and determination of neutral and acidic drugs, 369.

Kissinger, P. T. See **Yildiz, A.**, 2520.

Kister, G. See **Puech, A.**, 1715.

Kisters, R., and **Greiling, H.** Gas chromatography of the neutral sugars of mucopolysaccharide peptides, 1313.

Kitamura, M. See **Miyakawa, T.**, 2059.

Kitaoka, Y. See **Kiso, Y.**, 288.

Kivalo, P. See **Virtanen, R.**, 2639.

Kiwan, A. M., and **Fouda, M. F.** Spectrophotometric determination of mixtures of mercury^{II} and organomercury^{II} ions by use of dithizone, 69.

Kjellin, K. G. Determination of trace elements in cerebrospinal fluid, 1.

Klaemt, R. See **Franzke, C.**, 3082.

Klakl, H. See **Korkisch, J.**, 40.

Klark, L. N. See **Gal'pern, G. M.**, 331.

Klas, J. Formula for calculation of hydrogen-ion concentration of aqueous solutions of weak polybasic acids, 3231.

Klaus, R. *In situ* analyses by TLC: accuracy of the method, 1852.

Klayman, D. L., and **Shine, R. J.** Categorisation of *N*-substituted thioureas via their *S*-methyl derivatives, 1459.

Kleber, W., and **Kloepfer, J.** TLC determination of sugars in worts, beers, alcohol-free drinks and enzymic hydrolysates, 1170.

Kleeman, C. R. See **Bradbury, M. W. C.**, 2860.

Klein, A. See **Chudzik, J.**, 3707.

Klein, A. K., **Link, J. D.**, and **Ives, W. F.** Isolation and purification of metabolites found in urine of male rats fed aldrin and dieldrin, 2895.

Klein, H. C. See **Hahn, R. B.**, 2476.

Klein, H. M. See **Fagan, A. W.**, 3195.

Klein, R. W. See **Gruber, M. P.**, 2384.

Kleinert, P. See **Novak, J.**, 2107.

Kleinmann, I. See **Svoboda, V.**, 1891, 3982.

Klembala, M. See **Szekacs, I.**, 402.

Kletenik, Yu. B. See **Shatalova, A. A.**, 36.

Kleyn, D. H., and **Lin, S. H. C.** Collaborative study of an alkaline phosphatase assay system for milk, 3035.

Klima, Z. See **Gregorowicz, Z.**, 3477.

Klimanek, L. See **Mozisek, M.**, 968.

Klimeck, B. A. See **Ragelis, E. F.**, 1752.

Klimenko, P. L. See **Lizogub, A. P.**, 940.

Klimes, I., and **Betusova, M.** Picogram procedures. III. Separation and detection of 1 to 10 picograms of cations in cells and tissues, 998.

Klimova, V. A., **Zabrodina, K. S.**, and **Shitikova, N. L.** Micro-determination of alkylthio-groups, 2151.

— See also **Anisimova, G. F.**, 2777.

Kline, M. H., **Medzihradsky, F.**, and **Hokin, L. E.** Automated assay of soluble preparations of sodium - potassium activated ATPase, 1103.

Klinge, D., and **Beyer, K.-H.** Detection and determination of imipramine and its derivatives, 2284.

Klingmueller, V., **Lueking, H.**, and **Kreuzer, C.** Dynamic tests. I. Continuous determination of glucose in venous blood, 1313.

Klockow, D. Radiochemical separations by the ring-oven method. III. The systems strontium-90 - yttrium-90 and barium-140 - lanthanum-140, 2558.

Kloepfer, J. See **Kleber, W.**, 1170.

Klokke, A. H., and **Thijssen, J. H. H.** GLC determination of unconjugated 3α-hydroxy-5β-androstan-17-one in human plasma, 1592.

Klopper, W. J. Determination of nitrogen compounds of high molecular weight in wort and beer by colour absorption, 1769.

Klosowski, S. Assay of podophyllotoxin in podophyllinic acid ethylhydrazide, 1672.

Kluge, K. R. See **Schilt, A. A.**, 1341.

Knauf, G. The Orsat apparatus - chromatograph: an apparatus for volumetric gas analysis, 3144.

Knauff, R. E. Mutual interference between sodium and potassium during their flame-photometric determination in biological fluids, 983.

Knedel, M., and **Appel, S.** Development and application of carrier electrophoresis as a micromethod, 1313.

Knevel, A. M. See **Goodman, H.**, 3767.

Knezevic, C., and **Radtke, R.** Polarographic determination of copper in packaging materials and in butter, 2535.

Knight, D. C. See **Faine, S.**, 3622.

Knight, D. M. Determination of potassium in ammonium perchlorate by atomic-absorption spectrophotometry, 3434.

— and **Buhlert, J. E.** Determination of water in beryllium powder, 56.

— and **Inouye, K.** Determination of nitrogen in 2-phenylcinchoninic acid derivatives, 296.

Knight, J. A., and **Hunter, D. T.** Continuous spectrophotometric determination of leucine aminopeptidase, 2347.

Knight, S. See **Eakins, J. D.**, 2274.

Knight, W. S. Use of Rosen's ninhydrin solution with the Beckman Spinco amino-acid analyser, 416.

Knizek, M. Use of the extraction of ferroin ion-association compounds in analytical chemistry: review, 6.

— and **Musilova, M.** Extraction of ferroin perchlorate, 167. Improvement of iron determination by use of ferroin - organic dye ion-association complexes, 1415.

Knobloch, E., and **Mnoucek, K.** Determination of 4,5-dimethyl-2-D-ribitylamino- and 2,3-dimethyl-6-D-ribitylamino-azobenzene in mixtures, 1476.

Knowles, F. Flow system for automated determination of serum calcium, 352.

Knowlton, M. See **Brooks, M. H.**, 3624.

Knuppen, R., Rao, M. L., and **Breuer, H.** Determination of oestrogens by combined paper, thin-layer and gas chromatography, 1313.

Kobayashi, M. See **Kiso, Y.,** 288.

Kobischke, H. See **Deutsche Akademie der Wissenschaften zu Berlin,** 1289.

Koch, A. L. Simplification of calculation of double-label experiments, 1932.

Koch, K. H., Ohls, K., and **Riemer, G.** Photometric determination of lead in free-cutting steel, 865.

Koch, M., and **Kochova, I.** Use of metallochromic indicators in colorimetry. II. Photometric determination of iron in soil with prolinethymol blue, 2419.

Koch, O. G. Determination of lead in free-cutting steel, 179.

Koch, W. Automation of analytical processes, 1947.

Koch, W. L. See **Wesselman, H. J.,** 1716.

Kochetkov, V. L. See **Plotnikov, V. I.,** 2564.

Kochetkova, T. M. See **Korenman, I. M.,** 2198.

Kochevanov, V. A., and **Kuznetsov, R. A.** Sensitivity of photon-activation analysis on a betatron with internal target, 4026.

Kochova, I. See **Koch, M.,** 2419.

Kocsis, G. See **Morvay, J.,** 2372.

Kocwa, E. See **Kostolowska, M.,** 471.

Kodama, T., Samejima, M., Amano, F., and **Utsumi, I.** Colorimetric determination of D-(+)-4-(2,4-dihydroxy-3,3-dimethylbutyramido)butyric acid, 3691.

Koehler, P., and **Spichale, W.** Determination of rutile in the presence of anatase by transmission measurement in the middle i.r. region, 2678.

Koehne, H. See **Poethke, W.,** 2381.

Koelbel, G., Louvrier, J., and **Voinovitch, I. A.** Determination of small amounts of chloride in cement, 885.

— See also **Voinovitch, I. A.,** 2143.

Koen, V. Paper-chromatographic separation and identification of *p*-aminophenol and aniline, 3541.

Koenig, H. TLC detection and identification of orthophosphoric acid esters of aliphatic alcohols and their ethoxylated derivatives used as emulsifying agents in cosmetics, 317.

Koenig, P. See **Dickens, P.,** 183.

Koenig, W. See **Bayer, E.,** 1313.

Koeniger, M., and **Suess, A.** Use of gelling agents in assaying substances labelled with carbon-14, 3091.

Koennecke, H. G. See **Feist, U.,** 3565.

Koertum, G. Reflectance spectroscopy, *Book*: Nov.

Koev, K. Micro-determination of copper^{II} in water by an exchange reaction on paper, 1822.

Koffman, D. M. X-ray small-angle scattering instrument, 1310.

Kogan, O. Kh. See **Tarasevich, N. I.,** 154.

Kogan, V. A. See **Sokolov, V. P.,** 3955.

Kogelenberg, P. H. van. See **Fresen, J. A.,** 3743.

Kohara, H. See **Ishibashi, N.,** 2088.

Kohler, K.-H. See **Borriss, H.,** 3716.

Kohlicek, J. See **Miketukova, V.,** 991.

Kohn, J. See **Shandon Scientific Co. Ltd.,** 1849.

Kohno, H. See **Yoshioka, T.,** 205.

Koibuchi, M. See **Shibazaki, T.,** 495.

Kojima, I. See **Tanaka, M.,** 893.

Kojima, J., and **Hess, J. W.** Ascorbic acid interference with estimation of chitobiase activity, 2346.

Kojima, T. See **Funasaka, W.,** 2205.

Koka, M., Mikolajcik, E. M., and **Gould, I. A.** Spectrophotometric determination of heat-activated mercapto-groups of skimmed milk, 513.

Kokk, Kh. See **Orav, M.,** 2004.

Kolb, B., and **Wiedeking, E.** Dual-channel series-to-parallel arrangement of gas-chromatographic columns by means of column switching: application to analysis of natural gas, 604. Radiometric-gas-chromatographic analysis of fatty acid methyl esters and steroids, 1313.

Kolb, H. See **Vogl, K.,** 3889.

Kolbe, W. See **Simon, H.,** 1313.

Kolesnikov, G. S. See **Kiryushov, V. N.,** 3232.

Kolesnikova, L. P., Khotimskaya, M. I., Gurevich, V. T., Martynes, M., Kamzolkin, V. V., and **Bashkirov, A. N.** GLC separation of cyclic alcohols and ketones, 3534.

Kolesnikova, V. M. See **Beider, T. B.,** 2838.

Kolesova, S. A. See **Vol'khin, V. V.,** 49.

Kolman, S. D. See **Mozersky, S. M.,** 1083.

Kolman, Z. See **Michalec, C.,** 1583.

Komar', N. P. Differentiating action of solvents immiscible with water in acid - base titrations of mixtures of acids in a two-phase medium, 1320.

— and **Palagina, L. S.** Spectrophotometric determination of nickel, cobalt and chromium in steel. II. Study of spectrophotometric properties of nickel and cobalt sulphates, 2118.

Komatsu, S. See **Nomura, T.,** 2666.

Komissarova, L. N., Byr'ko, V. M., Men'kov, A. A., and **Tuseev, N. I.** Analysis of scandium arsenide and scandium antimonide for scandium and arsenic or antimony, 774.

Komogortsev, B. V. See **Leonov, S. B.,** 2180.

Kompis, I. See **Kucera, Z.,** 1850.

Konczalik, J. See **Dutkiewicz, T.,** 2887, 3623.

Kondo, K. See **Creveling, C. R.,** 1597.

Kondrashchenko, T. A. See **Dantsig, G. A.,** 1257.

Kondratov, V. K., and **Novikov, E. G.** Separate titration of pyridinecarboxylic acids in non-aqueous medium, 933. Potentiometric titration of pyridyl-substituted derivatives of carbamic acid in ethyl methyl ketone with tetraethylammonium hydroxide, 3558.

— **Rus'yanova, N. D., Malysheva, N. V.,** and **Yurkina, L. P.** Determination of pyridine and quinoline bases in mixtures with their oxidation products, 294.

Konecna, A. See **Dokladalova, J.,** 2795.

Koniuszy, F. R. See **Redalieu, E.,** 1104.

Kon'kova, A. V. Improvement of sensitivity of determination of thallium or lead in aqueous solution by anodic-stripping voltammetry, 2636.

— See also **Zakharov, M. S.,** 701.

Kon'kova, I. V. See **Volodina, M. A.,** 266, 2152.

Kono, A. See **Goto, Shigeru,** 1473.

Konopasek, J. See **Berka, A.,** 253.

Konovalov, E. E. See **Ivanovskii, M. N.,** 45.

Konrad, J. G. See **Pionke, H. B.,** 2442.

Konttinen, A. Assay of ornithine carbamoyltransferase, 2964.

Kooten, W. J. van, Mali, J. W. H., Goeij, J. J. M. de, and **Houtman, J. P. W.** Determination of chromium in human skin by neutron-activation analysis, 1.

Kopanskaya, L. S. See **Chikryzova, E. G.,** 2707.

Kopnina, O. I. See **Tiptsova, V. G.,** 66.

Koprda, V., and **Fojtik, M.** Effect of temperature on the separation of chromium and manganese on ion-exchange resins. II. Factors influencing the separation process, 1408.

— See also **Fojtik, M.,** 1881.

Korchagina, T. N. See **Skvortsova, A. B.,** 247.

Kordumov, A. I. See **Agasyan, P. K.,** 2557.

Korenman, I. M., and **Ganina, V. G.** Reaction products of vanadate with 8-hydroxyquinoline derivatives as reagents for alcohols, 3498.

Korenman, I. M., and **Karyakina, L. N.** Absorptiometric determination of naphthylamines, 2203.
— and **Kochetkova, T. M.** Absorptiometric determination of toluidines, 2198.
— **Sheyanova, F. R.**, and **Boyarkina, V. V.** Absorptiometric determination of 3-aminopyridine, 2209.
— **Sheyanova, F. R.**, and **Kalugin, A. A.** Basic dyes as reagents for aromatic carboxylic acids, 1470.
— **Sheyanova, F. R.**, and **Mironova, V. N.** Extraction - photometric determination of potassium, caesium and thallium^{I}, 3288.
— and **Zimina, G. M.** Absorptiometric determination of aniline, 1472.
Korkisch, J. Modern methods for the separation of rarer metal ions, *Book*: Sept.
— and **Klakl, H.** Anion-exchange behaviour of the platinum metals and gold in hydrochloric acid - organic solvent media, 40.
— and **Orlandini, K. A.** Selective cation-exchange separation of carrier-free caesium-137 from sodium-22, 1984.
— See also **Cummings, T. F.**, 94, and **Orlandini, K. A.**, 2637.
Korkuc, A. Chelating properties of flavanone derivatives. I. Investigation of the hesperetin - copper^{II} complex, 1126.
Kormany, T. See **Gal, S.**, 3350.
Kormicki, J., and **Mikolajek, E.** Complexometric determination of calcium in drugs with radioactive silver as indicator, 456.
Korosteleva, V. A. See **Filippova, N. A.**, 710.
Korotkov, V. F. See **Buyanov, N. V.**, 862.
Korshak, V. V. See **Val'kovskii, D. G.**, 1493.
Korshakevich, I. I. See **Verkhoturov, G. N.**, 2747.
Korshunov, I. A. See **Glazov, V. M.**, 3419.
Kortuem, G. See **Braun, W.**, 3933.
Kosenko, N. N., and **Galuzo, L. V.** GLC determination of glycols and their ethers, 2791.
Koshcheeva, E. A. See **Vol'khin, V. V.**, 49.
Koshkin, N. V. Use of thiosemicarbazides in analysis. X. Nitroarylthiosemicarbazides as indicators in neutralisation and mercurimetric methods, 686.
— and **Ozimov, B. V.** Use of thiosemicarbazides in analysis. IX. Titrimetric determination of aldehydes, 920.
Koss, F. W. See **Mayer, D.**, 1313.
Kossler, I., and **Vodehnal, J.** Infra-red difference analysis of cyclic units in polyisoprene, 973.
Kostalas, H. A., and **Armiriotis, J.** Determination of radio-contaminants in the pool-water of a reactor, 713.
Kostellow, A. B. See **Morrill, G. A.**, 1653.
Kostetskii, E. Ya. See **Vas'kovskii, V. E.**, 2304.
Kostic, D. M. See **Neskovic, N. M.**, 2913.
Kostolowska, M., **Kocwa, E.**, and **Krowczynski, L.** Correlation between chemical and microbiological determination of chloramphenicol decomposition in ophthalmic solutions, 471.
Kostylev, N. F. See **Shesterova, I. P.**, 187.
Kosyukova, L. V. See **Shaposhnikov, Yu. K.**, 3584.
Kotieva, L. U. See **Filichkina, M. P.**, 766.
Kotler-Brajtburg, J. See **Marciszewski, H.**, 2156.
Kotlyar, G. Kh. See **Modylevskaya, K. D.**, 3377.
Kotlyarevskii, I. L. See **Nikolaev, A. V.**, 706.
Kotsuji, K., **Yoshimura, Y.**, and **Ueda, S.** Determination of thallium^{III} with 2,2′-bipyridyl - iron^{II} chelate, 3356.
Koucky, J. See **Vlacil, F.**, 3422.
Kovac, J. See **Batora, V.**, 3118.
Kovacicova, J. See **Batora, V.**, 3118.
Kovalenko, P. N., **Shchemeleva, G. G.**, and **Sokolova, L. S.** Extraction - photometric determination of uranium^{VI}, 782.
— See also **Azhipa, L. T.**, 2645, **Bagdasarov, K. N.**, 3300, and **Ignatenko, E. G.**, 33.
Kovalev, I. M. See **Belyavskaya, V. K.**, 3459.
Kovarik, L., **Vespalec, R.**, and **Vitoulova, M.** Preparation and testing of sodium suspensions, 2577.
Kowalski, B. R., and **Isenhour, T. L.** Analytical function for describing γ-ray pulse-height distributions in thallium-activated sodium iodide scintillators, 3253.
Kowalski, S. See **Gregorowicz, Z.**, 3264.
Kowblansky, M. See **Shane, N. A.**, 2373.
Koyama, M. See **Fujinaga, T.**, 3317.
Koyama, R. See **Oba, T.**, 2359.
Kozak, P., **Kalous, J.**, and **Jurecek, M.** Analytical aspects of the oxidation of organic nitrogen compounds with chromium^{VI} oxide. XIII. Kinetic analysis of mixtures containing substances with nitrogen - nitrogen linkages, 218.
— See also **Jurecek, M.**, 218.
Kozepesy, G. See **Morvay, J.**, 2372.
Kozina, I. Z. See **Subbotina, A. I.**, 1366, 3549.
Koziol, J. See **Koziolowa, A.**, 1091.
Koziolowa, A., and **Koziol, J.** Isolation of natural flavines by using phenol-type resins, 1091.
Kozlov, E. I. See **Yanotovskii, M. Ts.**, 442.
Kozlov, V. A. See **Spryskov, A. A.**, 2813.
Kozlova, M. N., **Lashko, N. F.**, **Shumilina, N. A.**, and **Burmistrova, A. A.** Phase analysis of molybdenum-based alloys, 2712.
— See also **Lashko, N. F.**, 3452.
Kozlova, V. S. See **Martur, V. G.**, 3890.
Kozlovskaya, L. V. See **Volodina, M. A.**, 3491.
Kozman, A. R. See **Karawya, M. S.**, 3627.
Koz'min, Yu. A. See **Startsev, V. N.**, 3391.
Kozyreva, E. A. See **Negina, V. R.**, 3393.
Kozyreva, G. V. See **Ivanov, N. P.**, 29.
Kracke, W. See **Sansoni, B.**, 1313.
Krafficzyk, F., and **Helger, R.** TLC of urinary amino-acids on two-adsorbent plates, 1313.
Kraft, G. Use of voltammetric indication in complexometric titrations: review, 2544.
Krakovetskii-Kocherzhinskii, Yu. A. See **Institut Metallofiziki Akademii Nauk Ukrainskoi SSR**, 1934.
Kram, T. C., and **Turczan, J. W.** NMR determination of dimethyl sulphoxide in solutions and ointments, 1149.
Kramarz, J. See **Przybylski, Z.**, 1279.
Kramlova, M. See **Pristoupil, T. I.**, 318, 1615, 3722.
Krasheninnikova, E. P. See **Negina, V. R.**, 327.
Krasnobaeva, N. See **Gerbatsch, R.**, 2494.
Krasnodebski, P., and **Rozycki, C.** Programmed-temperature chromatographic analysis. II. Primary n-alkanols, 2161.
Krasnosel'skii, V. N. See **Zaitsev, P. M.**, 3891.
Krasnova, M. A., and **Shemyakin, F. M.** Ultraviolet absorptiometric determination of diodone and pheniodol, 3783.
Krath, E. Collaborative study of the determination of metallic iron in the presence of iron oxides, 174.
Kraus, F. E. See **Raaen, H. P.**, 3723.
Kraus, L. Chromatography and photometry of arbutin, 2980.
Kraus, P.-V. See **Frank, P.**, 497.
Krause, A., **Domka, F.**, and **Marciniec, B.** Use of indigo carmine for determination of hydrogen peroxide, 43. Determination of traces of hydrogen peroxide with hydroxyl ions as catalyst, 3316.
— **Zielinski, S.**, and **Weimann, T.** Determination of traces of hydrogen peroxide by decolorisation of indigo carmine with acetic acid as catalyst, 721.

Krause, G. F. See **Gehrke, C. W.**, 3100, and **Rexroad, P. R.**, 3103.

Krause, R. T. Collaborative study of determination of phenazone and benzocaine in glycerol and propylene glycol bases, 1689.

Kravchenko, N. A. See **Lapuk, V. Kh.**, 3702.

Krawczyk-Obojska, I. Separation of uranium from rare-earth elements on sulphonic cationite KU-2. III, 2037.

Kreft, H.-D. Extended applications of laboratory weighing techniques by electronic balances, 1831.

Kreingol'd, S. U. See **Temkina, V. Ya.**, 833.

Kremer, V. A. See **Vail', E. I.**, 2693.

Krepinsky, J., and **Stiborova, J.** Criteria of purity and stability of sodium aminosalicylate. II. Colour of aqueous solutions: transmittance factor, 1704.

Krepska, H., and **Pakula, R.** Gravimetric determination of 4-amino-2-methyl-5-(phenethylaminomethyl)pyrimidine dihydrochloride with tungstosilicic acid, 2392.

Kreshkov, A. P., **Bykova, L. N.**, and **Blagodatskaya, Z. G.** Determination of phenol derivatives in alcohol medium, 2192. Analysis of dicarboxylic acids in non-aqueous media, 2252. Influence of water on acid - base titration in non-aqueous media, 3266.

— **Bykova, L. N.**, **Blagodatskaya, Z. G.**, and **Ardashnikova, V. D.** Relative scale of acidity of non-aqueous solvents, 2144.

— **Kazaryan, N. A.**, and **Rubtsova, E. S.** Potentiometric titration of mineral acids in non-aqueous medium in the presence of trioctylamine used as extractant, 1327.

— **Kazaryan, N. A.**, and **Shulunova, K. N.** Determination of esters of aliphatic and aromatic acids and their derivatives in non-aqueous media, 3518.

— and **Kuchkarev, E. A.** Emission molecular analysis: use in determining the number of carbon - carbon bonds in a molecule, 3483.

— and **Kuznetsov, V. V.** Determination of strontium in the presence of barium with 3,6-bis-(4-nitro-2-sulphophenylazo)chromotropic acid in acetone - water medium, 2607.

— **Senetskaya, L. P.**, and **Malikova, T. A.** Spectrophotometric determination of salts of 2-, 3- and 4-hydroxybenzoic acids, and analysis of their mixtures in non-aqueous solvents, 922.

— and **Tumovskii, L. A.** Analysis of mixtures of *m*- and *p*-nitrobenzoic acids by spectrophotometric titration, 2812.

— **Vasileva, S. V.**, and **Andreev, P. A.** Potentiometric titration of mixtures of sulphanilic acid with metanilic or sulphuric acid, 3546.

— See also **Bykova, L. N.**, 683.

Kretzschmann, F. See **Franzke, C.**, 3827.

Kreuzer, C. See **Klingmueller, V.**, 1313.

Krewson, C. F., and **Chortyk, O. T.** Comparative studies on tobacco leaf: use of rapid extraction technique for material soluble in light petroleum, 1526.

Kriege, O. H., and **Welcher, G. G.** Determination of scandium by atomic absorption, 3359.

Krijgsmann, W. See **Griepink, B. F. A.**, 209, 1441.

Krinsky, P. See **Ben-Yehoshua, S.**, 2411.

Krishnamurthy, G. See **Rao, S. D. T.**, 3080, 3081.

Krishnamurthy, K. R. See **Athavale, V. T.**, 118.

Krishnamurthy, N., **Nambudiri, E. S.**, and **Lewis, Y. S.** Apparatus for laboratory distillation of essential oils, 3914.

Krishnamurti, N. See **Kulkarni, N. G.**, 1516.

Krishnan, C. V. See **Iyer, S. G.**, 1975.

Krishnan, S. V. See **Chidambaram, S.**, 3545.

Kristalev, P. V., **Kristaleva, L. B.**, and **Shor, N. A.** Determination of ultra-micro amounts of arsenic in red phosphorus and in nickel, bismuth and hydrochloric acid, 812.

Kristaleva, L. B. See **Kristalev, P. V.**, 812.

Krivanek, M., **Kukula, F.**, and **Vins, V.** Neutron-activation determination of impurities in gallium, 1368.

— See also **Adamek, A.**, 1.

Krivosheina, M. V. See **Khadeev, V. A.**, 3390.

Kroeller, E. Identification of emulsifiers in foodstuffs. VIII, 3055. Determination of quassin residues in plums, 3060.

Krog, N. See **Brandt, P. E.**, 1455.

Krohmer, P., and **Kemmner, G.** Methods and detection limits in the i.r. spectrometric investigation of micro amounts, 1313.

Krol, Z., **Dabrowska, A.**, and **Hetnarska, K.** TLC determination of small amounts of 2-naphthylamine in 1-naphthol and in 1-naphthylamine, 2204.

Kroll, E. See **Pardun, H.**, 3823.

Krom, C. J. Determination of the wax content of bitumens, 3570.

Kross, W. See **Thalacker, R.**, 1153.

Krotoszynski, B. K. See **Dravnieks, A.**, 559.

Krouskop, N. C. See **Castellucci, N. T.**, 2450.

Krowczynski, L. See **Durek-Kluczykowska, B.**, 1109, and **Kostolowska, M.**, 471.

Krsek, J. See **Petru, F.**, 3197.

Krtil, J., **Bezdek, M.**, and **Mencl, J.** Determination of cerium in fission products by extraction with bis-(2-ethylhexyl) hydrogen phosphate, 777. Determination of radio-cerium in mixed fission products by reversed-phase partition chromatography with bis-(2-ethylhexyl) hydrogen phosphate, 778. Determination of radio-cerium in fission products by extraction chromatography using bis-(2-ethylhexyl) hydrogen phosphate, 2041.

— **Bezdek, M.**, and **Moravec, A.** Determination of radio-caesium in fission products by sorption on ammonium molybdophosphate, 102.

Krueger, E. Detection of formaldehyde in beer, 3071. Detection of dichloromethane in hop extract, 3815.

Krueger, R. H., **Warriner, J. P.**, and **Jaselskis, B.** Determination of hydrogen peroxide by oxidation with xenon trioxide, 3315.

Krukovskaya, E. L. See **Talipov, Sh. T.**, 2025, 3366.

Krupnick, A. C. See **Lucero, D. P.**, 2570.

Krutina, S. A. See **Dantsig, G. A.**, 1257.

Krylov, E. I. See **Startsev, V. N.**, 3391.

Krylova, A. N. Analysis of toxicological material for cadmium, 359.

Krysciak, J. Laboratory constant-pressure device, 3142.

Kryukova, E. I. See **Merlis, V. M.**, 2353.

Krzeminski, L. F., **Neff, A. W.**, and **Thornton, A. M.** Determination of melengestrol acetate residues in bovine tissues, 2286.

Kubasova, N. B., and **Kibisov, G. I.** Quantitative spectrographic analysis of substances of any composition. I. Removal of the matrix effect, 2493.

— See also **Kibisov, G. I.**, 2493.

Kubat, J. See **Romovacek, J.**, 2224.

Kubista, V. See **Kubistova, J.**, 2338.

Kubistova, J., **Mikulikova, L.**, **Valkoun, A.**, and **Kubista, V.** Improved sensitivity of detection in high-voltage electrophoresis of phosphorus compounds by incorporation of boric acid in the salicylate buffer solution, 2338.

Kubo, K. See **Sakurai, K.**, 2982.

Kuca, Z. See **Uhlik, L.**, 1961.
Kucera, Z., Pluhar, E., and **Kompis, I.** Device for starting a chromatographic run automatically, 1850.
Kucharkowski, R., and **Doege, H.-G.** Oxidation of tiron with hydrogen peroxide in the presence of cobalt: catalytic determination of cobalt, 2748.
Kucharzewski, B. See **Chwastowska, J.**, 3478.
Kucherov, V. F. See **Rudenko, B. A.**, 2471, 2786.
Kuchkarev, E. A. See **Kreshkov, A. P.**, 3482.
Kuczerpa, A. V. Ultra-micro spectrophotometric determination of calcium in plasma by use of glyoxal bis-(2-hydroxyanil), 353.
Kudo, T. See **Nambara, T.**, 1591.
Kudritskaya, L. N. See **Nabivanets, B. I.**, 3306.
Kuebler, N. A. See **Ballman, A. A.**, 4003.
Kuehn, W. Non-dispersive X-ray fluorescence spectroscopy with radionuclides. II. Technical applications, 637.
Kuehne, C. See **Flath, H.-J.**, 2235.
Kuendig, H. TLC separation of barbiturates and thiobarbiturates, 1127.
Kukol, R. F. See **Wacker, P. F.**, *Book*: Nov.
Kuksis, A., Breckenridge, W. C., Marai, L., and **Stachnyk, O.** Quantitative GLC in the structural characterisation of glycerylphosphatides, 3668.
— See also **Subbiah, M. T.**, 409.
Kukula, F. See **Adamek, A.**, 1, and **Krivanek, M.**, 1368.
Kukushkin, E. P. See **Potapova, T. I.**, 2814.
Kulbicki, G., Sourisse, C., and **Baradat, J.** Determination of trace elements in silicates by direct-reading spectrography, 106.
Kulhanek, V., and **Appelt, J.** Determination of total serum bilirubin, 1079.
Kulick, I., and **Winter, E.** Flame photometer with SPM 2 mirror monochromator and flame attachment for VSU 2 spectrophotometer, 3992.
Kulicka, J. See **Baranowski, R.**, 2807.
Kulkarni, M., Shah, Ramanlal C., and **Gandhi, R. S.** Use of a sodium-ion electrode to determine sodium in dissolved-wool solution, 959.
Kulkarni, N. G., Krishnamurti, N., Chatterjee, P. C., and **Aggarwal, J. S.** TLC of vinyl monomers based on undecenoic acid, 1516.
Kulkarni, S. Y. See **Tabib, S. N.**, 225.
Kumamaru, T. See **Yamamoto, Yuroku**, 1948, 2101.
Kumar, M. A. See **Powell, P. E.**, 454.
Kumar, P. See **Gupta, P. L.**, 1488.
Kumar, S. See **Sinha, B. C.**, 2066.
Kundrat, W. Methods for the determination of residues of antibiotics in animal products, 1313.
Kundu, A. K. See **Manna, S.**, 3736.
Kunin, L. L. See **Orzhekhovskaya, A. I.**, 1387, and **Vasserman, A. M.**, 3418.
Kunin, R., and **Gustafson, R. L.** [Analytical reviews, 1968]—Ion exchange, 677.
Kunitskaya, L. A. See **Ol'shanova, K. M.**, 1324.
Kuno, H. See **Kihara, H. K.**, 3710.
Kupec, J., Goryaev, M., Lyubman, N., Imangazieva, G., Shostak, F., Stamberg, J., and **Sevcik, S.** Ion-exchange capillaries. IV. Capillaries with an active layer containing polycondensates of aromatic hydrocarbons with formaldehyde, 1261.
Kupriyanova, L. A. See **Belyavskaya, V. V.**, 3295.
Kupryszewski, G. See **Karczynski, F.**, 1065.
Kurcz-Csiky, I. See **Bakacs-Polgar, E.**, 2434.
Kuroda, R., Ishida, K., and **Kiriyama, T.** Adsorption behaviour of some metals in hydrochloric acid on a weakly basic anion-exchange resin, 3275.
— See also **Ishida, K.**, 2759.
Kurosky, A., and **Bars, A.** GLC determination of amino-acids in beer and wort, 1767.
Kurtz, L. T., Tandon, H. L. S., and **Marcusiu, E. C.** Determination of aluminium in the presence of fluoride by emission spectroscopy, 2619.
Kurz, G. Determination of D-galactose and its derivatives with galactose dehydrogenase, 1313.
Kurzawa, Z., and **Suszka, A.** Ergothioneine-induced sodium azide and iodine reaction and its application for chemical analysis, 3701.
Kurzawinska, J. See **Groszkowski, S.**, 1145.
Kusche, J. See **Lorenz, W.**, 1313.
Kushnirenko, I. Ya. See **Belyi, M. U.**, 3301.
Kustova, N. A. See **Tserkovnitskaya, I. A.**, 2116.
Kutassy, S., Kajtar, J., and **Medzihradszky-Schweiger, H.** Micro-determination of t-butoxycarbonyl protective groups on various amino-acids and their derivatives, 3705.
Kuteinikov, A. F. See **Vainshtein, E. E.**, 3285.
Kutergina, L. V. See **Rudnevskii, N. K.**, 2115.
Kutil, J., and **Urvalkova, D.** Determination of impurities in sputtered layers of germanium by spark-source mass spectrometry, 112.
Kuusi, J. Radio-isotope X-ray spectrometry: application to the metallurgical industry, 3978.
Kuzdzal, W. See **Kuzdzal-Savoie, S.**, 3039.
Kuzdzal-Savoie, S., and **Kuzdzal, W.** Use of solubility of barium salts for determination of volatile fatty acids of butter, 3039.
— and **Trehin, J.** Fractionation of methyl esters of butter fat by TLC on silver nitrate-impregnated silica gel. I. Preliminary study, 516.
Kuzel, N. R. Automated analysis for tertiary amines, 1686.
Kuzina, L. A. See **Shevchenko, F. D.**, 2005.
Kuz'menko, E. A. See **Tsitovich, I. K.**, 905.
Kuz'min, N. M. Group extraction - concentration of metallic elements as internal complexes review, 691.
Kuz'minova, N. E. See **Stolyarov, K. P.**, 797.
Kuznetsov, R. A. See **Kalinin, A. I.**, 3409, and **Kochevanov, V. A.**, 4026.
Kuznetsov, V. V. See **Kreshkov, A. P.**, 2607.
Kuznetsov, Yu. N., and **Kuznetsova, G. A.** Methods of measuring weak spectral lines: review, 1267.
Kuznetsova, A. S. Determination of antimony and iron in catalysts used in the manufacture o acrylonitrile, 817.
Kuznetsova, E. N. See **Bogoslovskii, N. A.**, 2366.
Kuznetsova, G. A. See **Kuznetsov, Yu. N.**, 1267.
Kuznetsova, L. I. See **Kibizov, Yu. V.**, 926.
Kuznetsova, V. K. Determination of gallium in the presence of macro amounts of antimony and aluminium in, *e.g.*, semiconductor materials, 79
Kvasov, A. A. See **Baryshnikov, Yu. N.**, 3547.
Kviesitis, B., and **Herriman, L.** Collaborative study of analysis of molasses and molasses products, 3013.
Kwapulinska, G. See **Gregorowicz, Z.**, 3609.
Kwiatkowska, I. See **Rodziewicz, W.**, 3531.
Kwiatkowski, E. See **Rodziewicz, W.**, 3531.
Kyowa Chemicals Kabushiki Kaisha. Separation o glycerol from other triols by distillation, 3503.
Kyrs, M., and **Kadlecova, L.** Separation of alkal metals by extraction chromatography with dipicrylamine and nitrobenzene, 725.
Kyutukchiev, B. See **Skrinska, E.**, 3713.

L

Labarta Carreno, C. E. Analysis of pyrite by X-ra fluorescence spectrometry, 880.
Labruyere, B., Olsthoorn-De Leeuw, C., an **Smeenge, F.** Determination of traces of volatil solvents in spice oleoresins by GLC analysis of th headspace, 520.

ach, J. L. See **Wesolowski, J. W.**, 1684.

acko, L. See **Mach, O.**, 348.

acombe, J. P. See **Marenco, A.**, 563.

aCroix, D. E. See **Sheppard, A. J.**, 2991.

a Cruz Castillo, F. de. See **Cruz Castillo, F. de la.**

adon, A. W. See **Walraven, J. J.**, 3174.

adon, A. See **Gregorowicz, Z.**, 2226.

aFleur, P. D. Activation analysis: summary of activities July 1967 to June 1968, *Book*: Oct.

a Gueriviere, J. F. de. See **Gueriviere, J. F. de la.**

agunova, N. L. See **Berkovich, M. T.**, 2012.

aidley, R. A. X-ray fluorescence analysis of rock samples, 1314.

aidman, D. L. See **Hall, G. S.**, 3833.

ajolo, F. M. See **Zucas, S. M.**, 2722.

akin, H. W. See **VanSickle, G. H.**, 743.

akritz, L. See **Stedman, R. L.**, 373.

akshminarayana, G. Applicability of the turbidity test for castor oil to some other hydroxy- and epoxy-group containing fatty compounds, 3826.

aktionova, N. V. See **Karyakin, A. V.**, 1270.

al, S., and **Srivastava, S. N.** Suppression of polarographic maxima of thallium^{I}, lead^{II}, cadmium^{II}, nickel^{II}, cobalt^{II} and manganese^{II} by using aliphatic alcohols, 3302.

ally, A. E. See **Eakins, J. D.**, 979.

ally, J. S. See **Fisher, R. M.**, 677.

amb, D. See **Greichus, Y.**, 1556.

ambert, A. K. See **Headridge, J. B.**, 867.

ambert, B. See **Daneholt, B.**, 1088.

ambert, J. L., and **Manzo, D. J.** Spectrophotometric determination of cyanide ion with tris-(1,10-phenanthroline)iron^{II} - tri-iodide ion-association reagent, 2047.

ambert, M. E., and **Walker, J. A. J.** Determination of hydrogen in irradiated zirconium alloys, 2063.

ambrecht, R. M., and **Rack, E. P.** Complicating role of reactions induced by isomeric transitions in neutron-activation analysis for bromine-82 and iodine-130, 3436.

amm, C. G. See **Ruzicka, J.**, 3345.

ampkin, W. T. See **Fricke, F. L.**, 1707.

amprecht, W. See **Mayer, D.**, 1313.

andault, C., and **Guiochon, G.** Theoretical and experimental study of packed capillary columns used in gas chromatography. I. Experimental study of operating conditions, 606.

andis, P. S. See **Kerr, G. T.**, 2531.

andis, W. R., and **Perrine, T. D.** NMR and i.r. spectroscopic study of *N*-vinyl compounds, 2208.

ando, D., **Rudder, J. de**, and **Privat de Garilhe, M.** Two-dimensional TLC resolution of oligonucleotides of apurinic deoxyribonucleic acid labelled with phosphorus-32, 1086.

ands, W. E. M. See **Brandt, A. E.**, 618.

anfranco, G., and **Bianchini, A.** Analysis of 'six nines' zinc by neutron activation, 753.

ang, H. See **Haertel, A.**, 1313.

ang, W. See **Herrmann, R.**, 1.

angdon, A. See **Howard, O. H.**, 48.

ange, P. W., **Rolle, W.**, **Runge, A.**, **Huebner, H.**, and **Leibnitz, E.** Determination of uptake of oxygen by polycaprolactam with use of oxygen-18, 2238.

– See also **Hyden, H.**, 2943.

angenfeld, A. See **Meffert, A.**, 2533.

angham, W. H. See **Jackson, J. A.**, 1294.

angheinrich, A. P., and **Forster, J. W.** Application of radio-isotope non-dispersive X-ray spectrometry to analysis of molybdenum, 1310.

angner, E. H. Effect of the catalyst packing on the retention time of the hydrocarbon products in carbon-skeleton GLC, 886.

angone, J. A. See **Dreskin, S. A.**, 3184.

Langrock, P. See **Bock, R.**, 3385.

Langsjoen, A. See **Jensen, R. E.**, 2890.

Lanning, E. W., and **Weberling, R. P.** Determination of vanadium and oxygen in vanadium oxides by difference spectrophotometry and inert-gas fusion - GSC, 135.

L'Annunziata, M. F., and **Fuller, W. H.** Quantitative indicator for the paper-chromatographic or electrophoretic determination of polyaminocarboxylic acids, 1180.

Lanusse, P. See **Vidal, G.**, 2697.

Lanza, P., **Concialini, V.**, and **Benati, A.** Polarographic determination of bismuth in urine, 2276.

Lapid, Y., **Bazini, E.**, and **Gottesfeld, S.** Voltammetric determination of cerium in concentrated phosphoric acid medium, 91.

Lapina, K. P. Separation of strychnine and securinine in chemical - toxicological analysis by TLC, 2883.

Lapple, C. E. Particle size analysis and analysers: review, 1938.

Lapuk, V. Kh., **Chistyakova, L. A.**, and **Kravchenko, N. A.** Determination of tryptophan in lysozyme and its photo-oxidation products, 3702.

Larach, S. Cathode-ray-excited emission-spectroscopic analysis for trace rare-earth metals. I. Qualitative studies, 1375.

Larebeyrette, J. de. Analysis of food and biological products: review, 2395.

Larsen, E., **Siekierska, K. E.**, and **Fenger, J.** GLC of mono-, di- and tri-bromobenzenes labelled with bromine-82: application in recoil chemistry, 272.

Larsson, S. See **Haljamae, H.**, 3608.

Larue, T. A. Colour reactions of pyridines with trisodium pentacyanoamminoferrate, 293.

Laruelle, L. See **Debackere, M.**, 2882.

Lashko, N. F., **Zaslavskaya, L. V.**, **Kozlova, M. N.**, **Morozova, G. I.**, **Sorokina, K. P.**, **Khakhlova, N. V.**, and **Yakovleva, E. F.** Problems associated with physico-chemical phase analysis of steel and other alloys: review, 3452.

— See also **Kozlova, M. N.**, 2712.

Laskorin, B. N., **Stupin, N. P.**, **Fedorova, L. A.**, **Nikul'skaya, G. N.**, and **Yuzkhin, A. I.** Determination of divinylbenzene cross-linkage in ionites by i.r. spectroscopy, 3973.

Lassner, E., and **Schedle, H.** Molybdenum^{VI} - hydroxylamine complexes. III. Chelatometric determination of molybdenum as the ternary molybdenum^{VI} - hydroxylamine - EDTA complex compared with the usual EDTA titration, 3426.

— and **Thomich, W.** Determination of carbon in carbides used for producing cemented carbide alloys, 2045.

Last, J. H. See **Shipton, J.**, 3808.

Lastovskii, R. P. See **Temkina, V. Ya.**, 833.

Lathrop, M. B. See **Zinkel, D. F.**, 383.

Latimer, G. W., jun. Potentiometric titration of iron^{II} - hydrochloric acid solutions with permanganate, 1417.

Latner, A. L. See **Dale, G.**, 1070.

Lato, M., **Brunelli, B.**, **Ciuffini, G.**, and **Mezzetti, T.** Two-dimensional TLC of carbohydrates on silica gel impregnated with boric acid, 245. Analysis of carbohydrates in biological fluids by TLC, 3641.

Latysheva, A. N. See **Gudz', L. F.**, 745.

Lau, J. P. See **Alexander, P.**, 2656.

Lauckner, J., and **Fuerst, H.** Determination of chlorine-containing pesticides after separation by TLC, 1802.

Laucks Laboratories, Inc. Moisture-detection apparatus for dielectric materials, 2572.

Laudise, R. A. See **Ballman, A. A.,** 4003.

Lauer, G., and **Osteryoung, R. A.** General-purpose laboratory data-acquisition and control system, 3921.

Lauer, K. F. See **Verdingh, V.,** 99.

Launer, P. J. The i.r. absorption bands characteristic of the 2-cyanoethylsilylidyne and 3-cyanopropylsilylidyne groups, 2154.

Laurent, J. Conditions for standardising chemical methods of analysis, 1949.

Lauridsen, J. B. See **Brandt, P. E.,** 1455.

Laverlochere, J. See **Aubouin, G.,** 1880.

Lavoue, G. Cleaning technique for open-tubular GLC columns, 1247.

Lavrova, I. K. See **Zalesskaya, T. E.,** 3535.

Lavrovskii, K. P. See **Protsidim, P. S.,** 1467.

Lawrence, B. M. Use of TLC. I. TLC in essential oil analysis: review, 3579.

Lawrence, D. M. Determination of urinary pregnane-3α,17,20α-triol and 3α,17,20α-trihydroxypregnan-11-one by GLC, 3674.

Lawrence, J. H. See **Thomas, E. J.,** 1800.

Lawson, J. R., and **Barnett, R. L., jun.** Determination of trace amounts of multi-atomic inorganic ions by i.r. spectroscopy, 14.

Lawson, R. H. See **Huebner, V. R.,** 3182.

Layton, R. F., and **Quick, Q.** Analytical significance of the aromatic isocyanate - peroxy-compound reaction, 2201.

Lazarev, A. I. Determination of molybdenum$^{\text{VI}}$ by a kinetic method with use of selenate, 839.

— and **Lazareva, V. I.** Photometric determination of lithium, 1978.

Lazareva, V. I. See **Lazarev, A. I.,** 1978.

Lazebnaya, G. V., Yudelevich, I. G., Mamontova, L. I., Shaidurova, G. V., and **Lyandusova, Yu. A.** Removal of the matrix effect in the spectrographic analysis of reagents, 15.

Leach, H., and **Hammond, K. B.** Determination of urinary 5β-pregnane-3α,20α-diol by GLC, 2920.

— and **Toseland, P. A.** Determination of barbiturates and some related drugs by GLC, 1552.

Leaf, G. Analysis for amino-acids in biological fluids, 1309.

Learner, R. C. M. Design of spectrographic apparatus: review, 2492.

Lebedev, V. I. See **Ivantsov, L. M.,** 3199.

Lebedeva, L. I., and **Ptushkina, M. N.** Determination of phosphorus and silicon in special glasses and in iron ores by i.r. spectroscopy, 2065.

— See also **Golubtsova, Z. G.,** 845.

Lebedeva, M. I., Isaeva, B. I., and **Prokhorov, V. N.** Determination of silicon, copper, manganese and aluminium in zeolites, 1337.

Lebedyantseva, A. I. See **Songina, O. A.,** 2737.

LeBlanc, A. E. Micro-determination of ethanol in blood by GLC, 3633.

Leblond, A. M., and **Boulin, R.** Spectrophotometric determination of tin in ferrous metals with phenylfluorone, 864.

— **Wendling, R.,** and **Bourdieu, J. M.** Separation and determination of metallic iron and of bi- and ter-valent iron in siderurgical products, 3448.

Lechner, M. C. de S. See **Sousa Lechner, M. C. de.**

Leclercq, M., and **Carlier, S.** Determination of antimony in electrolytic zinc and solutions of zinc sulphate by anodic-stripping voltammetry, 63.

Lecuire, J.-M. See **Bourret, P.,** 835.

Lederer, M., and **Marini-Bettolo, R.** Chromatographic separation of selenocyanate and thiocyanate, 2667.

— See also **Ossicini, L.,** 694.

Lee, H. M. Determination of impurities in singl crystals of magnesium oxide by neutron-activatio analysis, 2603.

Lee, K. H., Thompkins, L., and **Spencer, M. F** Separation of aspirin and salicylic acid b gel filtration, 2374.

Lee, K. S. See **Jones, F. T.,** 1574.

Lee, R. See **Zeitz, L.,** 2340.

Lee, Y. Y. See **Travesi Jimenez, A.,** 1.

Leech, R. M., Dyer, T. A., Poole, C. E., and **Smith W.** Determination of base ratios of very sma samples of RNA using TLC, 1643.

Leeling, N. C. See **Aker, N. L.,** 3117.

Leeuw, C. Olsthoorn-De. See **Olsthoorn-De Leeuw,**

Legari, J. J. See **Sahasrabudhe, M. R.,** 522.

Leger, C. See **Mabuchi, H.,** 3284.

Legeza, S. S. See **Zil'bershtein, Kh. I.,** 642.

Leggio, T. See **Serlupi-Crescenzi, G.,** 1636.

Legradi, L. Detection of isomeric toluidines an their nitro-derivatives, 284. Kinetic analysis organic chemistry. V. Determination of chloronitrobenzene in presence of *p*-chloronitr benzene and of chlorodinitrobenzene in presen of chloronitrobenzene, 1475. Detection halogen atoms in aromatic nitro-compound detection of 3-methyl-1-phenylpyrazolin-5-on 1477. Detection of isomeric anilinesulphon acids in the presence of each other, 1478. Dete tion of nitro-compounds, 2810. Differentiati and detection of hydrazine derivatives in t presence of hydroxylamine, 3401.

Legrand, G. See **Voinovitch, I. A.,** 2143.

Legun, I. See **Ionescu Nipal, F.,** 1201.

Le Hericy, J. See **Albert, P.,** 2702.

Le Hir, A. See **Cerdas, J.,** 1148.

Lehman, D. A. See **Berge, D. G.,** 2987.

Lehmann, G., and **Bruhn, T.** Behaviour of ascor acid with hydroxylamine in analysis of ascor acid, 1313.

— and **Hahn, H.-G.** Detection and determinati of water-soluble, synthetic food dyes with pol amide powder, 2406.

— **Hahn, H.-G.,** and **Schirra, M.** Polyami method for determination of nicotinic acid, 13

— and **Wilhelm, G.** Colorimetric determination esters of phthalic acid in the presence of ot carboxylic esters by the hydroxamate meth 2256.

Lehmann, Joanna. See **Slover, H. T.,** 3601.

Lehmann, Jorgen. Conservation and determ ation of 5-hydroxytryptamine in blood, 3686.

Lehmann, V. Direct determination of lithium serum by atomic-absorption spectroscopy, 22

Lehnert, G., Schaller, K. H., and **Haas, T.** Atom absorption spectrophotometric determination cadmium in serum and urine, 357.

— See also **Schaller, K. H.,** 3123.

Lehnhardt, W. F., and **Winzler, R. J.** Determinat of neutral sugars in glycoproteins by GLC, 16

Lehr, J. R. See **Ando, J.,** 2420.

Lehrle, R. S. Micro-pyrolysis - GLC: review, 31

Leibnitz, E. See **Lange, P. W.,** 2238.

Leicknam, J. P., Middelboe, V., and **Proksch,** Isotopic analysis of nitrogen containing sm amounts of nitrogen-15 by means of opti spectrometry, 121.

Lel'chuk, Kh. A. See **Baletskaya, L. G.,** 733.

Lel'chuk, Yu. L., and **Ivashina, V. A.** Fluorimet determination of traces of boron in high-pur tin, 115.

— **Sokolovich, V. B.,** and **Detkova, G. A.** Indir extraction - colorimetric determination of tra of phosphorus in high-purity tin, 116.

— See also **Sokolovich, V. B.,** 117.

mbke, A., Moebus, O., and **Wasserfall, F.** Determination of nitrite in cheese, 1158.
Moan, G. See **Chaigneau, M.,** 2997.
nhard, G. Determination of dehydrogenase activity in samples from anaerobic treatment systems, 3888.
nihan, J. M. A., and **Smith, H.** Activation analysis and public health, 1.
and **Thomson, S. J.** Advances in activation analysis, *Book*: Nov.
ong, W. H. See **James, D. W.,** 1893.
onhardt, J. Determination of traces of water in town gas or air by GLC with a β-ionisation detector, 3314.
onov, S. B., and **Komogortsev, B. V.** Determination of dixanthogen in aqueous solutions of metal xanthates, 2180.
Pera, M. E. Analysis of fuel de-icers by GLC, 2221.
Perdriel, F., Hanegraaff, C., Chastagner, N., and **Montety, E. de.** Colorimetric determination of paracetamol in medicaments, 1135.
pin', L. K. See **Putnin', I. Ya.,** 2622.
ppard, C. J., and **Spencer, D. H. T.** Low-pressure mercury porosimeter for measuring macropores, 1944.
pri, L. See **Cozzi, D.,** 1958, 2454.
rche, H. See **Ebel, S.,** 2371.
Riche, H. H. Ion-exchange concentration of trace elements for spectrochemical analysis of rocks and soils, 3479.
rner, J., and **Schepartz, A. I.** Chromatographic separation of biologically important phosphate esters, 1635.
rner, M., and **Zeffert, J. T.** Determination of tetrahydrocannabinol isomers in marijuana and hashish, 2361.
rner, M. W. See **Bedrosian, A. J.,** 2011.
slie, W. D. See **Hagen, D. F.,** 2805.
soine, L. G. See **Deverse, F. T.,** 1863.
upold, D. See **Deutsche Akademie der Wissenschaften zu Berlin,** 1289.
vchenko, T. M., and **Kirichenko, V. A.** Iodimetric and turbidimetric determination of melamine in aqueous solutions after formation of hexachloromelamine, 1830.
vi, C. P., and **Borker, E.** Analysis of green coffee for potential aflatoxin contamination, 1755.
vi, L. I., and **Aleksandrova, A. N.** Sampling techniques in determination of gases in cast iron, 2109.
vier, W. A. See **Vita, O. A.,** 2657.
vin, I. S., and **Balakireva, N. A.** Use of alkyl hydrogen phosphates in analytical chemistry. VI. Extraction and determination of gallium in industrial products, 78.
Shatalova, A. A., and **Vorsina, I. A.** Extraction of antimony^{V} by alkyl phosphates, 818.
See also **Shatalova, A. A.,** 36.
vina, N. B. See **Chumachenko, M. N.,** 2776.
vine, J., and **Weber, J. D.** Determination of free salicylic acid in buffered acetylsalicylic acid tablets, 1129.
vine, S. L. Atomic-absorption analysis of ferrites, 2110.
vins, R. J., and **Ikeda, R. M.** Separation of volatiles from solids in the injection port of a gas chromatograph, 2458.
vitman, Kh. Ya., and **Deich, R. P.** Spectrophotometric study of the reaction of palladium with dithio-oxamide, 196.
vorato, C. Determination of menaphthone sodium bisulphite in anti-haemorrhagic vitamin combinations, 1678.
Lewandowski, A., and **Sybirska, H.,** Determination of small amounts of isoniazid and isonicotinic acid by means of cationite paper, 1139.
— See also **Bzdega, J.,** 3566.
Lewandowski, R. See **Jensen, R. E.,** 2890.
Lewis, G. E. See **Bowie, J. H.,** 1483.
Lewis, J. See **Scullion, H. G.,** 3228.
Lewis, M. H. Determination of hydroxybenzoates and benzoates in food, 3062.
Lewis, R. E. See **Schalge, A. L.,** 292.
Lewis, R. R. Efficient use of atomic-absorption spectrophotometry in mining laboratories, 2551.
Lewis, Y. S. See **Krishnamurthy, N.,** 3914.
Leyarovska, L. See **Peshev, P.,** 822.
Leyden, D. E., and **Whidby, J. F.** Use of broadening of NMR line widths in linear-extrapolation complexometric titrations: determination of manganese, 852.
Li, K. C., and **Woodroof, J. G.** Gas-chromatographic resolution of non-volatile organic acids in peaches, 2403.
Li, M. See **Searle, B. G.,** 2936.
Libbey, L. M. See **Reddy, M. C.,** 3038.
Libby, R. A. Use of TLC combined with X-ray emission spectrometry, 3940.
Libers, R. See **Beckham, R. D.,** 229.
Liberti, A. See **Goretti, G. C.,** 248.
Liberti, J. P. Spectrophotometric determination of *p*-nitrophenyl propionate esterase activity in rat tissues, 1098.
Liebenberg, C. J. See **Strelow, F. W. E.,** 2560.
Liebermeister, H. See **Hoffmann, H. H.,** 2902.
Liebmann, R., Hacker, S., and **Hennings, P.** Determination of chlorine in pesticides by the sodium biphenyl method, 549.
Lier, J. E. van, and **Smith, L. L.** Crystalline sterols obtained by preparative GLC, 3673.
Lieu, V. T. See **Frodyma, M. M.,** 27.
Liggett & Myers Tobacco Co. Temperature-compensation device for determination of moisture in tobacco, 1234.
Lightstone, P. J. See **Smith, I.,** 449.
Ligny, C. L. de. Comparative study of the influence of restricted diffusion upon the moving rate of the solute in various forms of chromatography, 3922.
Ligotti, I., Bonomi, G., and **Piacentini, R.** Determination of castor oil in natural rubber crepes, 2257.
Likhareva, T. P. See **Golubtsova, Z. G.,** 845.
Likussar, W., Beyer, W., and **Wawschinek, O.** Investigation of morpholinium 3-oxapentamethylenedithiocarbamate as a reagent in quantitative analysis. V. Determination of molybdenum in high-alloy steel, 2745.
— **Wawschinek, O.,** and **Beyer, W.** Extraction-spectrophotometric determination of iron with crystal violet, 170.
— See also **Pokorny, G.,** 3399.
Liljenzin, J. O. Activation analysis of fats and oils, 2535.
Lillian, D. See **Rogers, D. W.,** 2832.
Lima, F. W., and **Silva, C. M.** Activation analysis for determination of chromium in a water matrix, 1824.
Lin, A. L. See **Hsiu, H.-C.,** 1662.
Lin, F. M., and **Pomeranz, Y.** Effect of borate on colorimetric determinations of carbohydrates by the phenol - sulphuric acid method, 3505.
Lin, S. C. See **Peters, J. H.,** 2321.
Lin, S. H. C. See **Kleyn, D. H.,** 3035.
Lin, Z. F. See **Rechnitz, G. A.,** 1304.
Linden, J. G. M. van der, and **Steggerda, J. J.** Use of the gas-density balance in the determination of silicon, 1388.

Lindgren, D. L. See **Getzendaner, M. E.,** 1166.

Lindner, K. See **Schaller, K. H.,** 3123.

Lindquist, J. Carbon-paste electrode holder and simple method for preparing reproducible electrode surfaces, 3241.

Lindquist, J. E. Determination of interference in automated colorimetric analysis, 1300.

Lindsay, R. C. See **Arnold, R. G.,** 510, **Reddy, M. C.,** 3038, and **Scanlan, R. A.,** 3031.

Lineberger, W. C. See **Ozolins, A.,** 3194.

Linekin, D. M. See **Cooper, R. D.,** 1.

Lingane, J. J. Study of the lanthanum fluoride membrane-electrode for potentiometric determination and titration of fluoride, 1921.

Lingren, W. E., Reeck, G. R., and **Marson, R. J.** Separation of iron^{II} and iron^{III} mixtures by simultaneous paper chromatography and electrophoresis, 3447.

Link, J. D. See **Klein, A. K.,** 2895.

Linnenbom, V. J. See **Swinnerton, J. W.,** 1209.

Lins Mesquita, A. A. See **Mesquita, A. A. L.**

Lipiec, T. See **Mrozowski, A.,** 490.

Lipinska, I. See **Bahr, H.,** 730, 2849.

Lippi, U., and **Pulido, E.** Staining technique for lipoproteins separated by electrophoresis and immunoelectrophoresis, 2946.

Lippmann, H. G. See **Ziegler, M.,** 1068.

Lipsett, F. R. Method of cutting a diffraction grating, 2482.

Lipsett, M. B. See **Yoshimi, T.,** 1038.

Liptay, G., Bekassy, S., and **Takacs, J.** Derivatographic studies of gas-chromatographic partition liquids. II, 609.

Lis, A. W., Bijan, R., Lis, E. W., and **Hackbeil, K. F. de.** Separation of u.v.-absorbing urinary components of mentally retarded children and schizophrenic adults, 1630.

Lis, E. W. See **Lis, A. W.,** 1630.

Lisk, D. J. See **Bache, C. A.,** 2428, 2430, **Gutenman, W. H.,** 1795, and **St. John, L. E., jun.,** 2407.

Liska, B. J. See **Hempenius, W. L.,** 512.

Liss, E., Schmidt, Hannelore, and **Nowak, P.** Determination of deoxyribonucleoside triphosphates in ascites tumour cells, 1313.

Litchfield, C. Triglyceride analysis of *Ephedra nevadensis* seed fat by consecutive liquid - liquid partition and GLC, 533.

Liteanu, C., and **Alexandru, R.** Frequentometric analysis as a microchemical method. I, 1954.

— **Crisan, I. A., Copreanu, N.,** and **Badinschi, L.** Complexometric analysis of a mixture of cations. VI. Determination of copper, zinc and cadmium, 698.

— **Crisan, I. A.,** and **Marian, M.** Rapid analytical methods. X. Photometric determination of traces of iron in inorganic products containing chlorine and/or sodium, 857.

— and **Dulamita, N.** Thermal TLC. II. Separation of glycine from glutamine, 1053.

— **Mioscu, M.,** and **Popescu, I.** Use of membranes for determining the equivalence-point. IV. Membrane-electrode of parchment impregnated with barium arsenate, and its use in potentiometric acid - base titrations, 2522.

— and **Suteu, A.** Use of a molybdovanadophosphoric acid as redox indicator in titration of antimony^{III} with bromate, 2691.

— and **Ungureanu, A.** Use of triallyl phosphate for paper-chromatographic separation of uranyl, copper^{II} and iron^{III} ions, 3304.

— See also **Schoenberger, E.,** 2665.

Litovchenko, G. D. See **Nikeryasova, S. V.,** 2179.

Litteral, E. See **Vita, O. A.,** 2657.

Littlewood, A. B. Coupling of gas chromatograph with methods of identification. II. Use chemical methods, 600; III. Infra-red spectr photometry, 3177.

Litvinskaya, I. I. See **Strel'nikova, N. P.,** 3471.

Liu, B. Y. H., and **Verma, A. C.** Pulse-chargin pulse-precipitating electrostatic aerosol sample 1219.

Livillain, P. See **Girard, M. L.,** 3771.

Livingston, H. D. See **Nixon, G. S.,** 1.

Lizogub, A. P., and **Klimenko, P. L.** Spectrophot metric determination of acid and ester values i a flowing system, 940.

Lloyd, G. H. See **Burns, D. T.,** 1676.

Loader, E. J. See **Hendra, P. J.,** 3198.

Loayza, H. See **Braverman, L. E.,** 1594.

Lobanov, E. M. See **Gureev, E. S.,** 153.

Lock, C. J. L. See **Guest, A.,** 1902.

Locke, D. C. Liquid - liquid chromatograph study of solutions of hydrocarbons in acetonitril 1446.

Loebl, H. See **Joyce, Loebl & Co. Ltd.,** 3900, 400

Loeffler, G. See **Wellmann, E.,** 1313.

Loemker, J. E., and **Goldstein, J. H.** Solve dependence of H - F coupling parameters fluorobenzene, 918.

Loepfe, E., and **Monnier, D.** Rapid radiochemic separation of silver by reduction on mercury, 259

— See also **Monnier, D.,** 2601.

Loestickz, C. See **Losticky, Co.**

Loew, M. Continuous recording of carbon dioxi excretion in expired air, 1010.

Loffet, A. See **Michaux, R.,** 1469, 2299.

Logan, J. E. and **Allen, R. H.** Control seru preparations, 1531.

Logar, S., Mesicek, N., Perkavac, J., and **Perpar,** Paper and thin-layer chromatography of su stantive dyes, 3581.

Lojo, M. I. See **Mendez, J.,** 2298.

Lokshina, S. V. See **Kirichenko, E. A.,** 3394.

Lomako, L. T. See **Zhigunov, I. S.,** 2563.

Lombardi, N. M., Dobrecky, J., and **Carneva Bonino, R. C. d'A. de.** Identification and det mination of chloramphenicol, sulphadimethoxi and tetracycline hydrochloride in admixtu 1117.

— See also **Dobrecky, J.,** 1142.

Lombos, B. A., and **Sauvageau, P.** Measurement far-u.v. spectra with a logarithmic-ratio record double-beam instrument, 644.

Long, M. I. E. Determination of total sulphur pasture grasses by indirect polarography of sulphate ion, 1789.

Longinotti, L. See **Betto, P.,** 2930.

Longman, G. F. See **Reid, V. W.,** 1499.

Lontsikh, S. V., and **Raikhbaum, Ya. D.** Dir spectrographic determination of iron, aluminiu magnesium, silicon, calcium, lead and bismu in high-purity molybdenite, 2091.

Look, J. M. Collaborative study of the separat and spectrophotometric determination of acet carbromal and bromvaletone, 1685.

Loos, I. M., and **Protsenko, L. D.** Absorptiomet determination of *N*-[bis-(1-aziridinyl)phosphin benzamide, 492.

Lopez, A. D. See **Duran Lopez, A.**

Lord, D. F. See **Thorstensen, T. C.,** 2261.

Lord, K. A. See **Jeffs, K. A.,** 1799.

Lord, R. C. See **Hard, T. M.,** 1293.

Lorentz, K. TLC detection of amino-acids w *p*-benzoquinone, 1313. Kinetic measurement the hydrolysis of nucleotides and determinat of orthophosphate in their presence, 1638.

orenz, W., Kusche, J., Hahn, H., and **Werle, E.** Determination of the activity of diamine oxidases, urease and histidine ammonia-lyase by enzymic assay of ammonia, 1313.

orine, D. J., and **Stevenson, F. D.** Separation of niobium^{V} oxychloride from niobium^{V} chloride in a gas chromatograph by temperature-programming, 3415.

osev, N. F., Smagunova, A. N., Pavlinskii, G. V., Afonin, V. P., Gunicheva, T. N., and **Revenko, A. G.** Methods of X-ray fluorescence spectrographic analysis: review, 3977.

osi, G., Capella, P., and **Pallotta, U.** Free fatty acids in cheese. I. Method of analysis, 2402.

- See also **Strocchi. A.,** 3516.

osio, E. See **Giuffre, L.,** 2082, 2239.

osticky, C. Electrophoretic analysis of post-heparin carboxylesterases, 2967.

ott, J. A. See **Stevens. T. S..** 1471.

ott, P. F. See **Wiersma, J. H.,** 2552, 2705.

ourdes Freire, M. de. See **Freire, M. de L.**

ouvrier, J. See **Koelbel, G.,** 885, and **Voinovitch, I. A.,** 2143.

ove, T. A., Santoro, R. T., Peelle, R. W., and **Hill, N. W.** Absolute efficiency measurements of an organic scintillation neutron detector, 671.

ow, M. J. D., and **Freeman, S. K.** Analysis of flavouring components by i.r. interferometry, 2396.

Lowden, G. F. See **Montgomery, H. A. C.,** 579.

Lowe, I. J., and **Tarr, C. E.** Fast-recovery probe and receiver for pulsed NMR spectrometry, 647. High-power, untuned radio-frequency transmitter for pulsed NMR spectrometry, 2513.

Lowry, J. D. See **Sherma, J.,** 3500.

Lowry, R. R. Ferric chloride spray detector for cholesterol and cholesteryl esters on thin-layer chromatograms, 2307.

Lubecki, A. Sensitivity of complex radio-analytical methods, 2524.

— and **Wasilewska, M.** Influence of the energy of primary radiation on the sensitivity of X-ray fluorescence analysis, 3189.

Lucero, D. P. Performance characteristics of membrane-covered polarographic gas detectors, 1224.

— and **Krupnick, A. C.** Theoretical aspects of an acoustical hydrogen-specific detector for gas analysis, 2570.

Luddy, F. E., Barford, R. A., Herb, S. F., and **Magidman, P.** Preparation of methyl esters of butter fat and other fats, 3819.

Ludowieg, J. J., and **Benmaman, J. D.** Specificity and mechanism of the Elson and Morgan reaction, 1569.

Luebbe, D. See **Preussmann, R.,** 2798.

Lueck, H. See **Donner-Maack, R.,** 1775.

Lueking, H. See **Klingmueller, V.,** 1313.

Luettich, W. See **Neurath, G.,** 895, 907.

Lugg, G. A. Diffusion coefficients of organic and other vapours in air, 2431.

Lui, K. See **Findl, E.,** 602.

Luisi, M., Carnicelli, A., Marescotti, V., Grieco, M., and **Menchini, G. F.** Separation of some 17-oxo-steroids by means of horizontal TLC, 2309.

Lukac, S. Analysis of polyphenyls by GLC, 3530.

Lukacs, G., Kiss, B., and **Schanda, J.** Use of a process flow colorimeter, 4017.

Lukasiewicz, R. J., and **Fitzgerald, J. M.** Direct photochemical titration of a fluorescent compound, 1272.

Lukats, B. Specific absorptiometric determination of compounds containing mercapto-groups, 228.

Luke, C. L. Determination of trace elements in inorganic and organic materials by X-ray fluorescence spectrography, 1328. X-ray determination of traces of hafnium in zirconium metal or traces of zirconium in hafnium metal after separation by ion exchange, 2681.

Luke, H. A. See **Sherbon, J. W.,** 3034.

Lukens, H. R. Neutron-activation analysis for determination of beryllium, lithium, boron, fluorine and lead, 3292.

— See also **Andersen, G. H.,** 1.

Lukin, A. M. See **Vysokova, N. N.,** 3339.

Lukovskaya, N. M. See **Babko, A. K.,** 2730.

Lundberg, W. O. See **Hoevet, S. P.,** 1027, and **Viswanathan, C. V.,** 1028, 1585, 1586.

Lunde, G. Analysis for arsenic in phospholipids of marine oils by neutron activation, 1547.

Lundgren, F. A., and **Nargolwalla, S. S.** Use of a dual sample - biaxial rotating assembly with a pneumatic tube-transfer system for high-precision neutron-activation analysis, 674.

Luner, S. J. Ultra-violet photography for visualisation of separation patterns in zone electrophoresis and other methods, 1886.

Lunina, G. E., and **Romanenko, E. G.** Difference-photometric determination of iron and titanium in ilmenite ore, 1418.

Lunsford, J. V. See **Foulds, J. M.,** 1215.

Lupien, P. J., Hinse, C. M., and **Berlinguet, L.** Determination of glutamate decarboxylase activity in rat brain, 3738.

Lurie, D., and **Yariv, S.** Heterometric titration of sodium montmorillonite with calcium nitrate, 2761.

Lutchenko, N. N. See **Vasil'eva, L. N.,** 754.

Lutomski, J., Adamczewski, B., and **Ostrowska, B.** Modification of the Jaeger determination of alliin in garlic and its preparations, 3756.

Lutts, A. Determination of lattice parameters by the Kossel and divergent X-ray beam techniques, 1310.

Lutz, G. J., and **Soete, D. A. de.** Determination of carbon in sodium by photon-activation analysis, 724.

Lux, F. Application of activation analysis in biochemistry, 1313.

Lyalikov, Yu. S., Feoktistov, L. G., Solonar', A. S., and **Bael, N. G.** Pulse-polarographic determination of hexachlorobutadiene, octachlorocyclopentene and hexachlorocyclopentadiene, 550.

— See also **Feoktistov, L. G.,** 2157.

Lyandusova, Yu. A. See **Lazebnaya, G. V.,** 15.

Lyapin, S. See **Talipov, Sh. T.,** 3365.

Lyle, R. E. See **Phillips, J. P.,** *Book*: Oct.

Lyle, S. J., and **Maghzian, R.** Separation of carrier-free silver from neutron-irradiated palladium, 2756.

Lyn, V. See **Pink, F. X.,** 3383.

Lyne, F. A., Radley, J. A., and **Taylor, M. B.** Use of anthrone in the determination of trace amounts of glycerol, 242.

Lynn, S., and **Paalman, H. H.** Iodimetric determination of alkylanthraquinones and alkyldihydroanthraquinones, 2206.

Lyon, W. S. Physical techniques of activation analysis, 1.

— **Ricci, E.,** and **Ross, H. H.** [Analytical reviews, 1968]—Nucleonics, 677.

Lysyj, I., and **Nelson, K. H.** Pyrolysis - GLC determination of non-volatile organic compounds in aqueous solution, 2166.

— **Nelson, K. H.,** and **Newton, P. R.** Monitoring industrial water-pollutants by the pyrolysis - methane detection method, 2445. Determination of the organic content of natural water, 3873.

Lyubman, N. See **Kupec, J.**, 1261.
Lyubomilov, V. I. See **Sivakova, R. N.**, 2163.
Lyutaya, M. D., and **Bartnitskaya, T. S.** Decomposition of samples without loss of phosphorus in analysis of boron phosphide, 3348.
Lyzlova, G. S. See **Mishchenko, L. V.**, 1399.

M

Ma, T. S., and **Gutterson, M.** [Analytical reviews, 1968]—Organic microchemistry, 677.
— See also **Hirshman, J. L.**, 468, **Marcus, B. J.**, 405, and **Mazzella, P. P.**, 477.
Maa Bared, A. G. See **Voigt, R.**, 3750.
Mabuchi, H., **Tobailem, J.**, **Leger, C.**, **Bibron, R.**, and **Biettman, D.** Measurement of the activities of radionuclides induced in a meteorite by cosmic rays, 3284.
Macarovici, D., and **Beldean, L.** Gravimetric determination of phosphate ions as zirconyl phosphate, 2687.
McArthur, K. See **Bell, D.**, 1420.
McArthur, M. J. See **Demetriou, J. A.**, 1599.
McBride, C. H. Determination of secondary and minor plant nutrients in fertilisers by atomic-absorption spectrophotometry. IV, 3101.
McCann, H. G. Determination of fluoride in mineralised tissues using the fluoride-ion electrode, 2878.
McCarthy, E. D., **Han, J.**, and **Calvin, M.** Study of hydrogen-atom transfer in mass-spectrometric fragmentation patterns of saturated aliphatic hydrocarbons, 3496.
McCarthy, K. J. See **Walsh, J. T.**, 3957.
McCarty, B. D. See **Schalge, A. L.**, 292.
McCarron, E. C. Determination of loss-on-drying in roasted ground coffee, 1753.
McClements, B., and **Bodman, R.** Blood-gas measurement, 2876.
McCollum, J. P. See **Ragab, M. T. H.**, 1186.
McConnell, H. H. See **Cardwell, T. J.**, 128.
McCord, T. G. See **Brown, E. R.**, 4021.
McCormack, J. See **Scullion, H. G.**, 3228.
McCornack, A. A. See **Hayward, F. W.**, 527.
McCourt, C. F. See **National Research Development Corporation**, 3882.
McCown, J. J. See **Ellenburg, E. J.**, 3325.
McCrea, J. M. Use of punched cards as position indicators for spectrographic plates, 3187.
McCready, R. M. See **Potter, A. L.**, 3046.
McCurdy, W. H., jun. [Analytical reviews, 1968]—Volumetric and gravimetric analytical methods for inorganic compounds, 677.
Macdonald, A. M. G., and **Toth, K.** Development of fluoride-sensitive membrane-electrodes. I. Membranes containing the fluoride of thorium, lanthanum or calcium, 1305.
— and **Turton, G. G.** Automated analysis of highly fluorinated organic materials, 220.
MacDonell, H. L., and **Eaton, D. L.** Thermal decomposition of endrin as a measure of surface activity of gas-chromatographic support media, 3950.
McDonough, L. M. See **Butler, L. I.**, 2410, and **Maitlen, J. C.**, 3855.
McEwen, C. R., **Stallard, R. W.**, and **Juhos, E. T.** Separation of biological particles by centrifugal elutriation, 2263.
Macfarlane, C. Identification and determination of phenols in malt from peat-fired kilns and some applications of the analysis, 3069.
McGeown, M. G. See **Oreopoulos, D. G.**, 1540.
McGhee, T. J. Determination of the volatile acid concentrations in anaerobic digesters, 1829.
McGrath, J. F., jun. Design of an extreme-u.v collimator, 3218.
McGregor, R. F. Gas-powered automated sampl system for GLC, 3946.
Mach, O., and **Lacko, L.** Density gradient separations in a dextran medium, 348.
Macharashvili, T. G. See **Eristavi, D. I.**, 2090.
Machata, G., and **Battista, H. J.** Determination o barbiturates and other drugs by GLC, 2888.
— See also **Kisser, W.**, 369.
Macheix, J. J. See **Delaporte, N.**, 1162.
Macias R., F. M. See **Demetriou, J. A.**, 1599.
McIntosh, D. J. See **Chissick, S. S.**, 662.
Mack, C. H. See **Pearcy, L. Z.**, 260.
Mack, G. L. See **Broderick, E. J.**, 558.
McKaveney, J. P. Spectrophotometric determination of hydrofluoric acid in stainless-steel picklin baths, 2119.
McKeown, M. C. See **Coupe, N. B.**, 3941.
Mackie, I. M. Species identification of cooked fis by disc electrophoresis, 3027.
MacKillop, D. A. Pyrolysis - i.r. spectrophotometri analysis of rubber vulcanisates, 344.
McKinley, W. P. See **Mendoza, C. E.**, 526.
McKone, C. E., and **Hance, R. J.** GLC of substitute urea herbicides, 3849.
McLafferty, F. W. See **Chait, E. M.**, 1296.
McLaren, K. G., and **Williams, W. T.** Automati magnetic-roller device for gas mixing, 1833.
McLaren, L., **Myers, M. N.**, and **Giddings, J. C** Dense-gas chromatography of non-volatile sub stances of high molecular weight, 613.
McLaughlin, E. L. See **Getzendaner, M. E.**, 1166.
MacLean, D. C., **Weinstein, L. H.**, and **Mandl, R. H** Continuous monitoring of high concentrations o atmospheric fluoride, 1198.
MacLennan, D. N., and **Wells, F. H.** Performanc of a wide-range digitiser for direct couple analogue signals, 5.
MacLeod, A. J., and **MacLeod, G.** Analysis o volatiles of cooked cabbage by GLC, 1740.
MacLeod, G. See **MacLeod, A. J.**, 1740.
McLeod, H. A. See **Mendoza, C. E.**, 526.
MacLeod, W. D., jun., and **Nagy, B.** Prevention o sorption in the molecular separator between gas chromatograph and mass spectrometer, 1299
— See also **Modzeleski, V. E.**, 1492.
McManus, I. R., and **Jackson, M.** Isolation an assay of radioactive urinary kynurenic an xanthurenic acids, 1063.
McMeans, J. L., **Ashworth, L. J., jun.**, and **Pons W. A., jun.** Separation of aflatoxins in hull an meats of cottonseed by TLC, 3654.
McNair, H. M., and **Bonelli, E. J.** Chromatogra analysis for detection of faults in gas chromato graphy. [II], 601.
McNeil, T. L., and **Beck, L. V.** Fluorimetric estimation of the reduced glutathione - phthal aldehyde complex, 421.
McRoberts, J. W., **Olson, A. D.**, and **Herrmann W. L.** Determination of human urinary testo sterone and 17α-hydroxyandrost-4-en-3-one b TLC, 2311.
McSweeney, G. P. Photographic detection an documentation of u.v.-absorbing and fluorescen nucleotides on cellulose thin layers, 599.
Madison, R. P. See **Bieler, B. H.**, 1939.
Maekawa, S., and **Kato, K.** Spectrophotometri determination, with stilbazo, of aluminium i ferroalloys, 2111.
Maeno, H. See **Schreiber, G.**, 1313.
Maes, R. See **Sunshine, I.**, 2889.
Maesen, F. P. V. See **Altmann, A. E.**, 1551.

ffei Facino, R., and **Corona, G. L.** Quantitative valuation of amitriptyline and some of its netabolites in rabbit urine by TLC, 3626.
ffy, R. H. Conductimetric determination of nicro-molar amounts of carbon dioxide, 1544.
galhaes, M. T. See **Mesquita, A. A. L.,** 3552.
gee, R. J. See **Cardwell, T. J.,** 128, and **Woodurn, S. I.,** 188.
ger, E. V. See **Shmonin, L. I.,** 2007.
ger, K. A. See **Val'kovskii, D. G.,** 1493.
ger, S., and **Ionescu, M.** Determination of the β-isomer of BHC in the chlorination product of enzene, 3115.
ggiore, Q. See **Giovannetti, S.,** 1.
ggiore, R. See **Fortina, L.,** 3497.
ggs, R. J. Use of the electron-capture detector as a monitor for liquid-chromatography columns, 3929.
ghzian, R. See **Lyle, S. J.,** 2756.
gidman, P. See **Luddy, F. E.,** 3819.
gno, F. Coulometric production of iodide ion or use in titrations of mercury, 163.
and **Fiorani, M.** Study of the voltammetric ehaviour of the couples bromide - bromine, romide - tribromide, bromide - hypobromous acid nd bromide - hypobromide as a function of pH, 1322.
and **Pilloni, G.** Dynamic behaviour of the ilver - silver ferrocyanide electrode in coulonetric production of ferrocyanide, 3249.
gos, L. See **National Research Development Corporation,** 1194.
gro, G. See **Cottino, F.,** 1.
gyar Optikai Muvek. Automated analysis of ubstances in the dissolved state, 1231.
hajan, S. N. See **Baggi, T. R.,** 1705.
her, F. J. Operation of a sensitive thermometer, 1937.
hne, E. J., and **Pinfold, T. A.** Precipitate flotation. II. Separation of palladium from platinum, gold, silver, iron, cobalt and nickel, 2134.
ini, F. See **Ciusa, W.,** 1173.
iorova, R. V. See **Prokopenko, N. A.,** 3502.
iranovskii, V. G. See **Bogoslovskii, N. A.,** 2366.
itlen, J. C., McDonough, L. M., and **Beroza, M.** Determination of residues of aldicarb, its sulphoxide and its sulphone by GLC, 3855.
ity, H. P. See **Purkayastha, U.,** 2133.
jer, J. R. Examination of metal chelates by GLC and mass spectrometry, 703.
Reade, M. J. A., and **Stephen, W. I.** Mass spectrometry of metal chelates. III. Metal 8-hydroxyquinolinates, 708.
See also **Belcher, R.,** 216.
jor, T., and **Gado, P.** Selectivity of X-ray spectrography for determining contamination of tungsten trioxide, 2092.
akarov-Zemlyanskii, Ya. Ya. See **Gertsev, V. V.,** 2792.
akitie, O. Spectrophotometric determination of traces of iron in soil extracts with nitroso-R salt, 3098.
akkay, F. See **Kekedy, L.,** 1308.
akov, N. N. See **Alekperov, R. A.,** 2755.
aksimov, D. E. See **Rudnevskii, N. K.,** 2614.
aktaz, E. D. See **Dyatlovitskaya, F. G.,** 3892.
alakhov, V. V., Protopopova, N. P., Trukhacheva, V. A., and **Yudelevich, I. G.** Spectrochemical analysis of high-purity antimony with distillation of the base as tribromide, 3411.
alakhova, L. M. See **Trubnikov, V. I.,** 295.
ali, J. W. H. See **Kooten, W. J. van,** 1.
alik, Fazal-ur-Rehman. See **Hashmi, M. H.,** 2732.
Malik, W. U., and **Gupta, G. C.** Polarographic determination of the cation-exchange capacity of modified clay structures, 1177.
Malikova, T. A. See **Kreshkov, A. P.,** 922.
Malina, M. Collaborative study of GLC analysis for heptachlor content of formulations, 1803.
Malinowski, J. See **Deryng, J.,** 3786.
Malissa, H. Analytical chemistry and automation, 1947.
— and **Jellinek, G.** Automation in analytical chemistry. II, 1315.
Mallinson, A. See **Griffiths, M. H.,** 349.
Malm, D. L. Mass-spectrographic determination of molybdenum additive in tantalum oxide capacitor films, 2698.
Malmstadt, H. V. See **Nowak, A. V.,** 2467, 3959.
Malone, C. T. See **Dixon, C. W.,** 3580.
Maltese, P., Mori, A., and **Panizzi, S.** Determination of vinyl chloride in hydrogen chloride by GLC, 2098.
— **Panizzi, S.,** and **Mori, A.** Analysis of impurities in vinyl chloride by GLC, 2247.
Malvano, R., Grosso, P., and **Zanardi, M.** Single-step radiochemical separations by column procedures in activation analysis, 1340.
— See also **Cottino, F.,** 1, and **Giovannetti, S.,** 1.
Maly, R. See **Jaros, J.,** 2677.
Malysheva, N. V. See **Kondratov, V. K.,** 294.
Malysz, D. Schoniger determination of fluorine, phosphorus and sulphur in pharmaceutical preparations, 457.
Malyutenko, S. A. See **Grekov, A. P.,** 3514.
Malyutina, T. M. See **Dobkina, B. M.,** 140.
Mamantov, G., Strong, J. M., and **Clayton, F. R., jun.** Linear-sweep voltammetry of silver^{I}, cadmium^{II}, lead^{II}, copper^{II} and indium^{III} in a molten sodium nitrate - potassium nitrate eutectic mixture, 22.
Mamedov, I. A., and **Guseinova, Z. A.** Arsenate - iodimetric determination of aluminium, iron and magnesium, and determination of calcium with permanganate, 1335.
— and **Mukimov, A. M.** Arsenate - iodimetric determination of titanium in titanium carbide or boride, 1394.
— and **Nabiev, M. N.** Arsenate - iodimetric determination of thorium and cerium^{IV} in mixtures, 93.
Mamedova, V. M. See **Mekhtiev, S. I.,** 2246.
Mamontova, L. I. See **Lazebnaya, G. V.,** 15.
Manakin, G. A. See **Varlamov, M. L.,** 3402.
Manchanda, M. L. See **Khanna, S. S.,** 3838.
Manecke, G., and **Gergs, P.** Separation of amino-acids and dipeptides by ion-exchange chromatography on an amphoteric cellulose ion-exchanger, 1066.
Mandl, R. H. See **MacLean, D. C.,** 1198.
Mangold, H. K. Preparation of labelled lipids, 397.
Mankinen, C. B., and **Fischer, D.** Semi-automated multiple spotting of samples for paper chromatography, 3931.
Manna, S., and **Kundu, A. K.** Improved determination of pepsin, 3736.
Mannetstaetter, E. See **Furst, W.,** 3559.
Manning, D. C. Effect of acetone vapour in the air - acetylene flame, 1276.
— and **Heneage, P.** Element detection limits by atomic-fluorescence spectroscopy, 3282.
— See also **Fernandez, F.,** 2644.
Mannucci, P. M. See **Pabis, A.,** 2336.
Manolev, L. See **Haus, J. B.,** 1813.
Manoliu, C., Pasculescu, M., and **Tomi, B.** Spectrochemical determination of some impurities in alumina used as support for catalysts, 3351.
Manova, T. G. See **Pevtsov, G. A.,** 1963.
Manser, R. M. See **Kini, K. A.,** 2140.

Mansfeld, V. See **Rybak, M.,** 446.
Mansurkhodzhaev, U., Dzhiyanbaeva, R. Kh., Talipov, Sh. T., and **Tatarskaya, A. Z.** Complexometric determination of bismuth in ores, 2692.
Mansurov, V. A. See **Vasserman, A. M.,** 3418.
Mantle, D. E. See **Bryant, R.,** 1137.
Manzo, D. J. See **Lambert, J. L.,** 2047.
Marai, L. See **Kuksis,** 3668.
Marais, E. P. See **Rossouw, J. H.,** 2857.
Marais, J. N. *In situ* determination of radiophosphorus in tobacco plants, 2874.
Marbach, E. P. See **Ware, A. G.,** 2292.
Marcec, M. V., Kinson, K., and **Belcher, C. B.** Determination of minor amounts of tellurium in iron and steel by atomic-absorption spectrophotometry, 2743.
Marchart, H. Radiometric determination of nanogram quantities of cholinesterase inhibitors, 1810.
Marciniec, B. See **Krause, A.,** 43, 3316.
Marciszewski, H., and **Kotler-Brajtburg, J.** Infrared spectrophotometric detection of 1-bromo-3-chloro-2-methylpropane and 2-bromo-1-chloro-2-methylpropane in the presence of each other, 2156.
Marcu, G., and **Botar, A.** Paper-electrophoretic study of the formation of complexes of uranium and of some associated elements in formaldoxime medium. I. Separation of uranium^{VI} from cerium^{III}, iron^{III}, cobalt^{II}, nickel^{II} and copper^{II}, 786.
— and **Sacelean, V.** Chromatographic separation of uranyl ions from some fission products on Vionit CS-2 resin, 2653.
Marcu, P. See **Popper, E.,** 3289.
Marcus, B. J., and **Ma, T. S.** Organic synthesis on the microgram scale. III. Separation and purification of steroids, 405.
Marcus, Y., and **Kertes, A. S.** Ion exchange and solvent extraction of metal complexes, *Book*: Sept.
Marcusiu, E. C. See **Kurtz, L. T.,** 2619.
Marczenko, Z., and **Choluj-Lenarczyk, L.** Distillation and spectrophotometric determination of fluoride by the zirconium - Eriochrome cyanine method, 848.
— **Mojski, M.,** and **Kasiura, K.** Separation and determination of traces of zinc, cadmium, cobalt and nickel, 704.
Marenco, A., Blanc, D., Fontan, J., Lacombe, J. P., and **Crozat, G.** Chemical determination of traces of beryllium-7, phosphorus-32, strontium-90, lead-210 and polonium-210 in air and rain-water, 563.
Marescotti, V. See **Luisi, M.,** 2309.
Marette, G. See **Vreux, J. M.,** 2480.
Margoninski, Y. See **Eden, C.,** 2464.
Margoshes, M., and **Scribner, B. F.** [Analytical reviews, 1968]—Emission spectrometry, 677.
Marian, M. See **Liteanu, C.,** 857.
Mariani, A., and **Mariani Vicari, C.** Separation and determination of vitamin D in the presence of vitamin-A esters, 479.
Mariani, T. L. See **Hirschmann, R. P.,** 160.
Mariani Vicari, C. See **Mariani, A.,** 479.
Marinenko, J., and **May, I.** Fluorimetric determination of gold in rocks with Rhodamine B, 1998.
Marini-Bettolo, R. See **Lederer, M.,** 2667.
Mario, E., and **Gerner, R. E.** Determination of dimethylpolysiloxane as silicon in a commercial hand lotion by atomic-absorption spectroscopy, 2230.
Mark, H. B., jun. See **Kirowa-Eisner, E.,** 282.
Markevichiene, R. M. See **Norkus, P. K.,** 126.
Markina, A. B. See **Zelenetskaya, A. A.,** 2164.
Markina, E. A. See **Berg, Yu. N.,** 1887.
Markl, P., Humblet, L., Wichmann, P., and **Eschric**
H. On-line measurements by colorimetry. Measurements of absorption spectra for dire
colorimetric determination of uranium, 78
Determination of nitrous acid in Purex-proce
solutions. I. Direct spectrophotometric dete
mination of nitrous acid dissolved in tribu
phosphate, 810.
Markley, J. L., Putter, I., and **Jardetzky, O.** App
cations of NMR in biochemistry: analysis of t
aromatic region of the proton magnetic resonan
spectrum of staphylococcal nuclease, 1313.
Markman, A. L., and **Strel'tsova, S. A.** Fluorimet
determination of lithium in bittern, 577.
Markova, L. V. See **Babko, A. K.,** 2730.
Markovich, I. S. See **Dziomko, V. M.,** 1977.
Marks, A. See **Spencer, J. H.,** 2955.
Marks, J. Y. See **Guyon, J. C.,** 846.
Marletta, G. P. See **Pertoldi Marletta, G.**
Marmor, R. A. See **Bosin, W. A.,** 1776.
Maroni, G. C. See **Casertano, F.,** 1580.
Maros, L. See **Perl** (nee **Molnar**), **I.,** 897, a
Szakacs (nee **Pinter**), **M.,** 1130, 2207.
Marquez, J. A. See **Wagman, G. H.,** 1120.
Marr, G. V. Plasma spectroscopy, *Book*: Oct.
Marranzino, A. P. See **Grimes, D. J.,** 2763.
Marryatt, R. G. See **Afghan, B. K.,** 801.
Marsh, J. H., jun. See **Goodspeed, H. T.,** 697.
Marsh, R. H., and **Hahn, R. B.** Separation
zirconium-95 from niobium-95, and separati
of zirconium-95 and niobium-95 from seve
other nuclides, 120.
Marson, R. J. See **Lingren, W. E.,** 3447.
Martel, J. See **Gracian Tous, J.,** 2412.
Martell, C. J. See **Burnett, H. M.,** 1382.
Martelli, E. See **Maute, R. L.,** 2175.
Marti, H. R. Semi-quantitative assay of erythroc
glucose-6-phosphate dehydrogenase activity b
modification of the Motulsky test, 1095.
Martin, A. E. See **Parsons & Co. Ltd., Sir How**
Grubb, 3632.
Martin, E. A. See **Braun, J.,** 3761.
Martin, E. J. Preparative separation technique
macro-molecules by filtration through solid a
gel, 1616.
Martin, G. A. See **Peurifoy, P. V.,** 1486.
Martin, G. E., and **Eib, N. K.** Determination
sugars in distilled spirits by GLC, 3078.
— See also **Hoffman, C. M.,** 1774.
Martin, J. M., jun., and **Heaton, R. C.** Infra-
determination of stearyl methacrylate - ce
methacrylate copolymer in paraffin waxes, 28
Martin, L. E., and **Harrison, C.** Automated det
mination of noradrenaline and adrenaline
tissues and biological fluids, 2315.
Martin, M. M. See **Hamman, B. L.,** 2918.
Martin, R. O. Gas chromatograph - combustic
continuous-counting system for analysis
microgram amounts of radioactive metaboli
3175.
Martin, W. G. See **Kalab, M.,** 2947.
Martinage, A. See **Biserte, G.,** 2944.
Martinez, F. B. See **Bermejo Martinez, F.**
Martin Mira, J., and **Gasco Sanchez, L.** Por
polymers in the GSC of volatile components
fruit aromas, 2404.
Martinot, L. See **Caligara, F.,** 100.
Martorell, M. T. See **Terraza Martorell, M.**
Martur, V. G., Gukalova, T. P., and **Kozlova, V**
Determination of chlorobenzene and trichlc
phenol in waste water by GLC, 3890.
Martynes, M. See **Kolesnikova, L. P.,** 3534.
Mar'yanov, B. M. See **Beksheneva, N. M.,** 3592.
Maryska, S. See **Pekarek, V.,** 2036.

rzadro, M., Farina, A., and **Settimj, G.** Influence of the structure of nitrogen-containing substances on the micro-determination of carbon and hydrogen with external absorption of the nitrogen oxides, 213.

asalovich, N. S., and **Bogachev, G. N.** Values of permissible deviations in the analysis of cryolite and sodium fluoride, 1980.

asalovich, V. M. Determination of fluorine in the effluent gas from a phosphorus electrofurnace, 3405.

ashevskaya, S. N. See **Rashkovan, B. A.,** 285.

aslei, N. N. See **Pilipenko, A. T.,** 2123, 2136.

aslowska, J. See **Olczak, M. D.,** 803.

asood, A., and **Saxena, O. C.** Titrimetric micro-determination of glycine, 2324.

asri, M. S., Page, J. R., and **Garcia, V. C.** Analysis for aflatoxin M in milk, 1734.

assart, D. L., and **Hoste, J.** Determination of lanthanum in titania by activation analysis, 1395. Activation analysis for rare-earth metals. I. Separation from accompanying elements, 2640; II. Determination of lutetium in gadolinite, 2640; III. Determination of rare-earth metals in minerals by the single-comparator technique, 2640; IV. Determination of traces of rare-earth impurities in gadolinium trioxide, 2640.

asschelein-Kleiner, L., and **Heylen, J. B.** Analysis of ancient red lakes, 1502.

asson, A. Determination of the particle size of ground materials, 4038.

asson, L. See **Schmidt-Hebbel, H.,** 3074.

assoni, C. J. See **Shapiro, L.,** 3204.

assonne, J. Separation of nitrogen trifluoride from carbon tetrafluoride by GSC, 123.

asukawa, K., Suzuki, S., Kijima, H., and **Nakama, A.** Determination and stability of *N*-benzyloxycarbonyl-L-glutamylcholine, 3688.

athieson, J. M. See **Pearce, R. H.,** 3646.

athieu, H. P. See **Mathieu-Nast, C.,** 2886.

athieu-Nast, C., Mathieu, H. P., and **Blanquet, P.** Measurement of secretion rate of hydrocortisone by the Few method, 2886.

athur, K. N. See **Qureshi, M.,** 2706.

atkovic, J. See **Wilhelm, K.,** 556.

atkovics, B., and **Gondos, G.** TLC of isomeric steroid oximes and their lactams. III. Chromatography of oestrone and its derivatives, 2312.

— and **Tegyey, Z.** TLC of isomeric steroid oximes and their lactams. IV. TLC of bile acids, bile oxo-acids and their derivatives, 2312.

atrka, M., Junkova, I., and **Spevak, A.** Bromimetric determination of *N*-alkyl derivatives of aniline, 3539.

— **Verisova, E.,** and **Spevak, A.** Determination of *NN*-dimethyl- and *NN*-diethyl-*p*-phenylenediamines by titration with sodium nitrite solution, 924.

atschiner, H. See **Issleib, K.,** 916.

atsui, F. See **French, W. N.,** 1698.

atsui, Masakazu. See **Shigematsu, T.,** 90, 168, 3371.

atsui, Michio, Okada, M., Imanari, T., and **Tamura, Z.** GLC of trifluoroacetyl derivatives of alditols and trimethylsilyl derivatives of aldonolactones, 3508.

atsumura, Y. See **Kido, R.,** 420.

attern, P. J., Salem, A., and **Volkmer, G. H.** Modification of the Maes continuous-extraction process for fractionation of hard red winter wheat flour proteins, 3834.

atthews, H. R. Application of Cerenkov counting to column chromatography of phosphorus-32-labelled substances, 3924.

Mattioni, R., and **Valentinis, G.** Two-dimensional TLC of sorbitol and mannitol in the presence of fructose, glucose and sucrose, 1747.

Mattocks, A. R. Spectrophotometric determination of pyrazolines and some acrylic amides and esters, 2178.

Matula, R. A. See **Bright, R. N.,** 2787, and **Drennan, G. A.,** 103.

Matusiewicz, K. See **Kielczewski, W.,** 3332.

Matzik, B. Accuracy of pyknometric alcohol determinations in spirits, 3816.

Maume, B., Wilson, W. E., and **Horning, E. C.** GLC and mass-spectrometric study of trimethylsilyl ethers of cardiac aglycones, 1116.

Maurer, C. Determination of total protein in cerebrospinal fluid, without precipitation, by a modified biuret method, 425.

Maurer, E. W. See **Cordon, T. C.,** 3575.

Maurer, H. R. Modified combustion micro-determination of tritium in organic material, 980. Disc electrophoresis for special separations, 1313.

Maurice, M. J. See **Buijs, K.,** 2043.

Maute, R. L., Benson, R. H., and **Martelli, E.** Spectrophotometric determination of methanol in lactic acid through the hydrolysis and vacuum-stripping of methyl lactate, 2175.

Mavrodin, M. See **Popea, F.,** 2033.

Mavrodineanu, R., and **Hughes, R. C.** Multichannel spectrometer for simultaneous atomic-absorption and flame-emission analysis, 3208.

Mavrov, M. V. See **Rudenko, B. A.,** 2786.

Maxwell, J. A. Rock and mineral analysis, *Book*: Sept.

Maxwell, M. A. B., and **Williams, J. P.** Separation and estimation of the galactolipid compounds of broad-bean leaves, 2911.

May, E. L. See **Durst, R. A.,** 1351.

May, I. See **Marinenko, J.,** 1998.

Mayer, D., Haindl, H., Koss, F. W., and **Lamprecht, W.** Enzymic determination of bile acids in body fluids and tissues, 1313.

Mayer, H., and **Westphal, O.** Electrophoretic separations of hexosamine and hexuronic acid derivatives as molybdate complexes, 378.

Mayer, L. See **Hellma G.m.b.H. & Co. K.-G.,** 1282, 1285, 4002.

Mayer, P. See **Hellma G.m.b.H. & Co. K.-G.,** 1282, 1285, 4002.

Mayo, M. M. de. See **Broich, J. R.,** 458.

Maynard, J. B. See **Sanders, W. N.,** 308.

Mazor, L., Molnar, E. B., Kaplar, L., and **Takacs, J.** Data on the relationship between the retention index system and flow conditions in programmed-flow gas chromatography, 3968.

Mazzella, P. P., and **Ma, T. S.** Micro-determination of oxo-steroids as 2,4-dinitrophenylhydrazones, 477.

Mazzucato, P. See **Tagliamonte, A.,** 1023.

Meacham, S. A. See **Carmichael, H. T.,** 3319.

Mead, W. L. Field-ionisation mass spectrometry of petroleum wax fractions, 938.

Meador, G. R., and **Battles, W. R.** Improved aspirator - burner system for trace-sulphur analysis in petroleum products, 302.

Mealor, D., and **Townshend, A.** Applications of enzyme-catalysed reactions in trace analysis. I. Determination of mercury and silver by their inhibition of β-fructofuranosidase, 3344.

Mechos, Kh. Z., Gutnikova, R. I., and **Teodorovich, I. L.** Amperometric determination of cobalt in steel by using complex-forming agents, 866.

Medeck, E. Qualitative and quantitative applications of multiple internal reflection spectroscopy, 2508.

Medek, J. Determination of apparent density of rough porous matter, 4041.

Mediterranea S.p.A. Raffineria Italiana Petroli. Determination of salinity in crude oil, 937.

Medvedeva, A. P. Photometric determination of starch and carboxymethylcellulose in aqueous solutions, 899.

Medwadowski, B. F. See **Van der Veen, J.,** 384.

Medzihradsky, F. See **Kline, M. H.,** 1103.

Medzihradszky-Schweiger, H. See **Kutassy, S.,** 3705.

Meerov, G. I. Enzymic determination of mono- and di-saccharides labelled with carbon-14 and application for determining the radiochemical purity of such compounds, 1451.

Mefferd, R. B., jun., Summers, R. M., and **Clayton, J. D.** Correlational analysis of determinations of areas of gas-chromatographic curves, 3964.

Meffert, A., and **Langenfeld, A.** Determination of the surface area of finely divided materials, 2533.

Mehrotra, S. N., Khadikar, P. V., and **Sharma, H. N.** Use of 4-(2-ethyl-4,5-dimethoxyphenyl)butylamine as gravimetric reagent for copper$^{\text{II}}$, 50.

Mehta, R. C. See **Ganatra, J. P.,** 1138.

Meier, J. See **Buechler, W.,** 1106, 3267.

Meijboom, P. W. Separation and identification of 2,4-dinitrophenylhydrazones of unsaturated aldehydes and methyl ketones by TLC, 3821.

Meijers, C. A. M. See **Bastiaanse, A. J.,** 2872, 2873.

Meinardi, G. See **Carneri, I. de,** 3751.

Meites, L. Controlled-potential electrolysis and the rates of homogeneous reactions, 1947.

Mekhtiev, M. M. See **Verdizade, A. A.,** 2020.

Mekhtiev, S. I., Mamedova, V. M., Guseinov, A. G., Abashin, V. G., and **Agaeva, N. E.** Determination of acrylonitrile and methacrylonitrile by derivative polarography, 2246.

Mel'chakova, N. V. See **Ozerova, G. P.,** 2074.

Meldrum, P. R. See **Birney, D. G.,** 2559.

Melikov, A. A. See **Akhmedli, M. K.,** 2027.

Melkonyan, S. A., Grigoryan, L. G., Zhamagortsyan, V. N., and **Vartanyan, S. A.** Chemistry of but-1-en-3-yne. LXXXIII. TLC of acetylenic acids, diol monoacetates and ethers of pent-4-en-2-yn-1-ols, 3512.

Mellon, M. G. See **Boltz, D. F.,** 677.

Meloan, C. E. See **Schrenk, W. G.,** 3207.

Menchini, G. F. See **Luisi, M.,** 2309.

Mencl, J. See **Krtil, J.,** 777, 778, 2041.

Mendes-Bezerra, A. E., and **Uden, P. C.** Determination of sulphate by titrimetric and colorimetric measurement of equivalent displaced zinc ion, 142.

Mendez, J. Separation of simple phenols by GLC, 274.

— and **Lojo, M. I.** Ultra-violet spectral behaviour of some cinnamic acids, 2298.

Mendez Domenech, E. See **Bermejo Martinez, F.,** 2752.

Mendoza, C. E., Wales, P. J., McLeod, H. A., and **McKinley, W. P.** TLC - enzyme inhibition screening for organophosphorus pesticides in plant extracts without elaborate clean-up, 526.

Menger, J. W. See **Das, H. A.,** 1.

Men'kov, A. A. See **Komissarova, L. N.,** 774.

Menon, M. P. Optimum conditions for the automated determination of bromine-containing pesticide residues by activation analysis, 551.

— See also **Wainerdi, R. E.,** 1.

Menzell, W. See **Nebe, W.,** 4019.

Meranger, J. C., and **Somers, E.** Determination of heavy metals in wines by atomic-absorption spectrophotometry, 3073.

Mercaldo, D. E., and **Gallo, F. R.** Automated u.v. and colorimetric analysis for phenothiazine derivatives, 2996.

Merchant, R. N. See **Tambat, N. D.,** 1987.

Merciny, E., and **Duyckaerts, G.** Separation lanthanides and actinides on ion exchangers using HEDTA. IV. Formation of a negati complex, 3362.

Merck Akt.-Ges., E. Use of oil-insoluble agents f gel chromatography, 3180.

Meriwether, H. T. See **Rosenblum, C.,** 1706.

Merkulova, A. A. See **Shakhova, Z. F.,** 842.

Merlini, M., Girardi, F., and **Pozzi, G.** Activati analysis in studies of an aquatic ecological syste 1.

Merlis, V. M., Kryukova, E. I., Chemerisskaya, A. A Peresleni, E. M., and **Ivanov, A. A.** Simultaneou i.r. spectral determination of narcotine, thebai and papaverine in opium, 2353.

Merrick, S. P. See **Vickers, T. J.,** 3343.

Merritt, C., jun. See **Walsh, J. T.,** 3957.

Merritt, L. L., jun., and **Streib, W. E.** [Analytic reviews, 1968]—X-ray diffraction, 677.

Merz, W. Automated determination of nitrog in organic compounds, 1440.

— and **Mueller, K.** Determination of carbo carbon triple-bonds by quantitative selecti hydrogenation, 1442.

— See also **Mueller, K.,** 3492.

Mesicek, N. See **Logar, S.,** 3581.

Mesley, R. J., and **Clements, R. L.** Identification barbiturates by i.r. study of the occurrence polymorphism, 1680.

— **Clements, R. L., Flaherty, B.,** and **Goodhead,** Study of the polymorphism of phenobarbito 1681.

Mesquita, A. A. L., Correa, D. de B., Gottlieb, O. and **Magalhaes, M. T.** Structural investigation xanthenones. II. Location of hydroxyl grou by u.v. and visible spectroscopy, 3552.

Messerschmidt, W. Fluorimetric determination harman after separation by TLC, 462.

Meszaros, I. See **Meszaros, L.,** 3934.

Meszaros, L., and **Meszaros, I.** Investigations wi thread chromatography, 3934.

Metrimpex Magyar Muszeripari Kulkereskedel Vallalat. Liquid transfer appliance for use in t analysis of chemicals, 3139.

Metzler, D. E. See **Treadwell, G. E.,** 2341.

Meudt, W. J. See **Gaines, T. P.,** 1019.

Meunier, J. Action of *p*-benzoquinone on phen thiazine derivatives used in therapy. I. Qua tative applications, 2995.

— and **Viossat, B.** Action of *p*-benzoquinone phenothiazine derivatives used in therapy. Quantitative applications, 2995.

Meyer, D. See **Dreyer, I.,** 2879.

Mezei, C., and **Newburgh, R. W.** Column separati of phosphatides, acylcarnitines and carniti 1050.

Mezey, M. See **Gal, S.,** 3350.

Mezzetti, T. See **Lato, M.,** 245, 3641.

Michal, G. Sensitive determination of coenzyme 1313.

Michalec, C. Biochemistry of sphingolipids. XX Separation of dinitrophenyl derivatives of lon chain bases by reaction paper chromatograph 3667.

— and **Kolman, Z.** Biochemistry of sphingolipi XIV. Identification of sphingosine-base degrad tion products originating from different ac hydrolytic conditions, 1583.

Michaux, R., Jadot, J., and **Loffet, A.** Charact isation reactions of phenolic methyl ethers aft absorption on paper, 1469.

helsen, O. B., and Steinnes, E. Determination f copper in geological material by neutron ctivation and gamma-gamma coincidence pectrometry, 2589.
helson, W. See **Schmidt-Hebbel, H.**, 3074.
hlmayr, M. See **Gutmann, V.**, 21, 1357.
ldelboe, V. See **Leicknam, J. P.**, 121.
le, D. See **Shane, N. A.**, 2229.
ttinen, J. K. See **Rissanen, K.**, 3028.
gunova, I. A. See **Kiselev, A. V.**, 3169.
gunova, I. M. See **Vyakhirev, D. A.**, 1468.
naesco, E., and Fauvert, R. Determination of ile acids in blood by direct densitometry of hin-layer chromatograms, 410.
hailova, D. See **Paskalev, N.**, 80.
ranian, V. H., and Abou-Chaar, C. I. Detection nd determination of cucurbitin in *Cucurbita* eeds, 464.
kami, S. See **Sekiguchi, K.**, 4031.
kes, J. Developments relating to ion exchangers: eview, 3970.
ketukova, V., Kohlicek, J., and Kacl, K. Separa- ion of arsenite and arsenate ions by paper hromatography, 991.
khailina, A. T. See **Negina, V. R.**, 327.
khailov, G. I., and Starchik, L. P. Analysis for ithium by measurement of alpha radiation, 2576.
khailov, V. A. See **Nikolaev, A. V.**, 706.
khaleva, E. S. See **Beider, T. B.**, 1474.
kelson, T. J., and Robinson, J. R. Precise inetic measurements applied to the identification f organic compounds. II. Identification of ugars from rates of oxime formation, 2165.
klishanskii, A. Z. See **Alimarin, I. P.**, 1374.
kolajcik, E. M. See **Koka, M.**, 513.
kolajek, E. See **Kormicki, J.**, 456.
kulikova, L. See **Kubistova, J.**, 2338.
lbrath, M. See **Whiting, F. M.**, 3851.
lburn, M. S. See **Shotwell, O. L.**, 1781.
les Laboratories Inc. Detection of glucose in ody fluids, 3643. Test compositions for detec- ion of protein in fluids, 3708.
lic, N. B. Solvent extraction of actinides and ission products by nitromethane, 2646.
llar, J. R. See **Whittington, D.**, 1879.
llard, H. T., jun. See **Simon, F. O.**, 1999.
llen, D. J. Use of microwave spectroscopy for hemical analysis, 1905.
ller, A., III. See **Reddy, M. C.**, 3038.
ller, J. W. See **Scoggins, M. W.**, 2181.
ller, L. Combination of diffusion and convection for separation of argon isotopes, 1344.
ller, M. M. See **Wagman, G. H.**, 3748.
ller, M. T. Collaborative studies of the separation f extraneous material from whole and de- germinated maize meal, prepared mustard and oya-bean flour, 1724.
ller, Michael W. See **Karger, B. L.**, 853.
ller, Morton W., and Berg, G. G. Chemical allout: current research on persistent pesticides, *Book*: Nov.
ller, R. L. See **Stedman, R. L.**, 373.
lls, J. A. See **Frahn, J. L.**, 2320.
lne, H. B. See **Most, C. F., jun.**, 1612.
lner, G. W. C., and Crossley, D. Rapid dissolution f plutonium dioxide by a sodium peroxide-odium hydroxide fusion, followed by determination of the plutonium content by controlled-potential coulometry, 2658.
See also **Wood, A. J.**, 3244.
lovidova, A. V. See **Ivanovskii, M. N.**, 45.
lward, F. W. See **Bowes, J. H.**, 346.
Milyaeva, N. M., and Songina, O. A. Electrochemical study of the interaction of potassium dichromate with iron^{II}, 1983.
Minaev, V. A. See **Orekhov, V. T.**, 1461.
Minczewski, J., and Foldzinska, A. Neutron-activation determination of rhenium in molybdenite and copper ores, 152.
— **Grzegrzolka, E., and Kasiura, K.** Study of complexes of 4-(2-thiazolylazo)resorcinol with some metals, 2553.
— and **Rozycki, C.** Thiocyanate extraction and determination by dithizone of zinc in iron^{III} oxide, 3449.
Mine Safety Appliances Co. Detection of missile fuels in gas atmospheres, 3862. Detection of alcohols in gas atmospheres, 3863.
Mioscu, M. See **Liteanu, C.**, 2522.
Mira, J. M. See **Martin Mira, J.**
Miranskii, I. A. See **Gureev, E. S.**, 153.
Miriszlai, E. See **Ordogh, M.**, 1.
Mirkowski, C. See **Burek, R.**, 2767.
Mironova, V. N. See **Korenman, I. M.**, 3288.
Mirta Aseem, E. See **Aseem, E. M.**
Mische, W. See **Schroeder, E.**, 969.
Mishchenko, A. P., and Rodicheva, M. F. Microdetermination of carbon and hydrogen in substances adsorbed on a catalyst, 212.
Mishchenko, L. V., Chaikina, M. V., and Lyzlova, G. S. Determination of zinc, cadmium, lead and copper in phosphorite by anodic-stripping voltammetry, 1399.
Mishory, J., and Bolef, D. I. Interaction of ultrasound with Mossbauer gamma-rays, 1311.
Mislan, J. P., and Elchuk, S. High-sensitivity atomic-absorption spectroscopy via continuous sample pre-concentration. I. Continuous pre-evaporation, 3995.
Misra, G. J., and Tandon, J. P. Determination of gold with copper^{I} chloride, 742.
Mitchell, B. J. Applications of computerised statistical techniques in quantitative X-ray analysis, 1310.
Mitchell, F. L. See **Shackleton, C. H. L.**, 2919.
Mitchell, J., jun. Use of automation in functional-group analysis, 1947.
Mitina, L. I. See **Usova, E. P.**, 2236.
Mitjavila, S., and Derache, R. Determination of tannin and gallic acid in the same sample, 2909.
Mitra, N. K., Mukherjee, M., and Chakraborty, A. Volumetric determination of lithium, 3318.
— See also **Das Gupta, H. N.**, 110.
Miyaji, N. See **Tomura, K.**, 1376.
Miyajima, K. See **Nakagawa, T.**, 1497.
Miyakawa, T., Horiguchi, T., Fujimaru, M., and Kitamura, M. Application of X-ray fluorescence analysis to the titanium industry. I. Rapid determination of chlorine in titanium sponge, 2059.
Mizsei, A. See **Igloy, M.**, 1677.
Mizugaki, M. See **Veeravagu, P.**, 2296.
Mizuike, A. See **Fukuda, K.**, 1966.
Mizuno, G., Jarvis, D., and Chipault, J. R. Spurious peaks in temperature-programmed GLC, 620.
Mlytz, H. See **Wolf, F.**, 1262.
Mnoucek, K. Polarographic and spectral study of derivatives of 4-hydroxycoumarin and chromone, 1714.
— See also **Knobloch, E.**, 1476.
Moats, W. A. See **Dobres, H. L.**, 347.
Modell, M. Packed-bed thermal-conductivity detector for preparative gas chromatography, 3958.
Modylevskaya, K. D., and Kotlyar, G. Kh. Determination of free carbon in carbides of titanium, zirconium and hafnium, 3377.

Modzeleski, V. E., MacLeod, W. D., jun., and **Nagy, B.** Combined GLC - mass spectrometric methods for identifying normal and branched-chain alkanes in sedimentary rocks, 1492.

Moebus, O. See **Lembke, A.,** 1158.

Moehrle, H., and **Feil, R.** Identification of isomeric (amino)phenylethanols, 925.

Moeken, H. H. P., Eschrich, H., and **Willeborts, G.** Determination of fluorine in nuclear-fuel reprocessing solutions by using a fluoride-sensitive electrode, 1384.

— **Sitte, R., Heinz, W.,** and **Keese, H.** Remotely operated equipment for the analysis of radioactive re-processing solutions, 1329.

Moeller, H., Seiler, N., and **Werner, G.** Determination of the specific radioactivity of 'free amino-acids' in extracts of mammalian tissue, 1313.

Moellering, H. See **Grassl, M.,** 1313.

Moellmann, H., Reisch, J., Alfes, H., and **Jantos, N.** Identification of phenylethylamine derivatives in biological material by NMR and mass spectrometry after chromatographic separation, 1313.

— See also **Reisch, J.,** 1702, 2357.

Moghissi, A. A., and **Carter, M. W.** Internal standard with identical system properties for determination of liquid-scintillation counting efficiency, 673.

Mogilevskaya, V. I. See **Vasyutinskii, A. I.,** 751.

Mogos, I. See **Timar, M.,** 1555.

Mohai, M., and **Upor, E.** Analytical applications of alkyl phosphates. IV. Determination of the sum of rare-earth metals and yttrium with arsenazo III after 'antagonistic' re-extraction, 2638.

Moir, R. J. See **Nel, J. W.,** 986.

Mojski, M. See **Marczenko, Z.,** 704.

Mokady, R. S. Potentiometric titration of chlorides by using silver - silver chloride and sodium-glass electrodes, 2728.

Mokeeva, R. N., Tsarfin, Ya. A., and **Polyakova, T. A.** Determination of trace impurities in tetrahydrofuran by GLC, 2820.

Molchanova, N. G. See **Nefedov, V. D.,** 2662.

Moldan, B. See **Rubeska, I.,** 641, 3212.

Molina, J., and **Poe, R. D.** GLC of imidazoline salts, 2999.

Molina Berbeyer, R. Determination of potassium and argon for calculating geological ages, 877.

Molinero G., L. See **Schulz, E. P.,** 1033.

Molitoris, K. Column-chromatographic determination of ornithine and 4-aminobutyric acid, 1768.

Mollica, J. A. See **Urbanyi, T.,** 2385.

Molnar, E. B. See **Mazor, L.,** 3968.

Molochnikova, N. P. See **Myasoedov, B. F.,** 2031.

Molot, L. A., Arkhangel'skaya, A. S., Trusova, M. I., and **Mustafin, I. S.** Photometric determination of aluminium with catechol violet in solid solutions of lanthanum aluminate plus calcium titanate, 767.

— See also **Mustafin, I. S.,** 760.

Monerjan, A. See **Bock, R.,** 84.

Monescillo, C. F. See **Fuster Monescillo, C.**

Mong Shinh, N. See **Nguyen Mong Shinh.**

Monica, E. S. D. See **Della Monica, E. S.**

Monien, H. Inverse-voltammetric determination of small amounts of gold with measurement of peak potentials, 1354.

Monk, R. See **Campbell, A. D.,** 2772.

Monnier, D., and **Loepfe, E.** Redox exchange of gold and of platinum and their highly selective determination by thermal-neutron activation, 2601.

— See also **Loepfe, E.,** 2597.

Montagut Buscas, M., Obiols, J., and **Genis,** Atomic-absorption spectrophotometric det mination of chromium in cured hide, 3604.

Montelongo, F. G. See **Garcia Montelongo, F.**

Montety, E. de. See **Le Perdriel, F.,** 1135.

Montgomery, H. A. C., and **Lowden, G. F.** Wat pollution problems, 579.

Montgomery, J. R. Revolving riffle for sub-divid ground magnesium chips, 3140.

Moody, J. E., jun., Hohmann, J. R., and **Kapl G. B.** Chemical determination of the potency thyroid preparations, 1122.

Moody, J. R., Christian, G. D., and **Purdy, W.** Coulometric titration of tetraphenylborate with electrogenerated silver ion and a biampe metric end-point for determination of potassi and polyoxyethylene glycols, 2580.

— See also **Christian, G. D.,** 1454.

Mooney, J. B. See **Garbini, L. J.,** 2497.

Moore, J. J. See **Sax, S. M.,** 2966.

Mora, G. A. See **Asensi Mora, G.**

Morales, R. Potentiometric titrations of cyan acid and melamine in dimethyl sulphoxi containing media, 2251.

Moravec, A. See **Krtil, J.,** 102.

Moreiskaya, L. V. See **Tarasevich, N. I.,** 154.

Moreno, A. D. See **Diez Moreno, A.**

Moretti, G. See **Cavina, G.,** 473.

Morgan, A. See **Eakins, J. D.,** 979.

Morgan, K., and **Rees, T. C.** Determination of alpha-acids by semi-automated conductime titration, 3814.

Morgan, M. E. See **Reddy, M. C.,** 3038.

Morgan, T. D. See **Stafford, C.,** 1910.

Mori, A. See **Maltese, P.,** 2098, 2247.

Morimoto, H. See **Hamada, T.,** 379.

Morisi, G., and **Gualandi, G.** Automation in analy II. Automated analytical control of phar ceutical specialities containing cyanocobalan 2988.

Morman, D. H. See **Harlow, G. A.,** 677.

Moroz, A. A. See **Usatenko, Yu. I.,** 796.

Morozova, G. I. See **Lashko, N. F.,** 3452.

Morozova, R. P. See **Yatsimirskii, K. B.,** 2569.

Morozowich, W. See **Beyer, W. F.,** 2923.

Morpurgo, L. Paper-electrophoretic separatio cationic nitrato-aquonitrosylruthenium c plexes. 2129.

Morrey, J. R. Determination of spectral- positions from composite spectra with a dig computer, 1897.

Morrill, G. A., Feiner, L. A., and **Kostellow, A** Study of reaction between tryptophan ascorbic acid as a source of error in the assa tryptophan oxygenase, 1653.

Morris, D. R. See **United Kingdom Atomic En Authority,** 863.

Morris, L. J., Wharry, D. M., and **Hammond, E** Chromatographic behaviour of some isom long-chain aliphatic compounds. III. TL positional isomers of substituted fatty acids alcohols, 251.

Morrison, G. H. Trace analysis of biolo materials by mass spectrometry and iso dilution, 1.

— See also **Bedrosian, A. J.,** 1533, **Evans, C.** **jun.,** 1532, and **Skogerboe, R. K.,** 2516.

Morrison, J. D. See **Crawford, L. R.,** 4014.

Morrison, J. F. Chromatographic separatio nucleoside phosphates on diethylaminoet cellulose 'paper', 3724.

Morrison, W. H. See **Parker, F.,** 1025.

Morrow, J. I. See **Salzberg, H. W.,** *Book*: No

Morrow, R. W. See **Dean, J. A.,** 2715.

rse, R. S. See **Chiotis, E. L.**, 190.

rtimer, D. See **Sharp, W. B. A.**, 4030.

rvay, J., Kozepesy, G., and **Kocsis, G.** Paper-lectrophoretic examination of thiobarbiturates nd the corresponding pyridine - copper^{II} - thio-arbiturate complexes, 2372.

ryakina, I. M. Micro-determination of fluorine n organo-fluorine compounds by conductimetric itration, 1438.

schetto, Y. See **Biserte, G.**, 2944.

sconi, L. Spectrophotometric determination of arbinoxamine maleate in tablets containing affeine, sulphamethoxypyridazine and alginic cid, 1703. Determination of acetylglutamine n pharmaceutical products, 1710.

seley, P. B., and **Stanley, J. B.** Chromatographic etermination of neutral components in tall oil atty acids, gum and wood rosin, 3600.

sher, W. A., Bechara, I. S., and **Pozomek, E. J.** Application of 2-diphenylacetylindane-1,3-dione hemistry for the identification of organic com-ounds, 1432.

shy, R. J. See **Jacin, H.**, 1013, 1600, 3556, 3649, nd **Slanski, J. M.**, 1559.

skvin, L. N., and **Portnyagin, V. I.** Influence of alts of sodium, potassium, magnesium and alcium on the extraction of cerium and yttrium rom acid solutions by bis-(2-ethylhexyl) phos-hate, 2642.

ss, A. M. See **Horning, M. G.**, 3658.

ss, D. G. See **Collier, R. J.**, 2514.

ss, K. C. See **Kirk, A. D.**, 3517.

st, C. F., jun., and **Milne, H. B.** Quantitative TLC of benzyloxycarbonyl derivatives of di-eptide phenylhydrazides, 1612.

szynska, K. See **Deptula, C.**, 834.

szczynski, P. Application of Polish cation exchanger SD-5 in the fluorimetric determination of thiamine, 3087.

tomizu, S., Iwachido, T., and **Toei, K.** Volu-metric determination of potassium in river water y solvent extraction, 2438.

ttola, H. A., and **Freiser, H.** Use of metal-ion catalysis in detection and determination of micro amounts of complexing agents: catalimetric titration of cyanide ion, 2046.

Haro, M. S., and **Freiser, H.** Use of metal-ion catalysis in detection and determination of micro amounts of complexing agents: autoxidation of -ascorbic acid as an 'indicator' reaction, 1953.

tz, R. J. Determination of ethanol in single brandy drops, 3015.

ubry, R. J. See **Willett, D. N.**, 1786.

untjoy, W., and **Wahlberg, J. S.** Determination of micro amounts of caesium in geological materials, 2583.

unt Sinai Hospital Research Foundation Inc. Use of molecular-sieve-coated particulate ad-sorbent, 3605.

ura, A. M. See **Croizet, M.**, 2931.

urgues, L. de. See **Figueras Roca, F.**, 191.

vrin, M., and **Barkovic, D.** Colour reaction for determination of isonicotinic acid, 934.

za, B. K., Das, P. C., and **Basu, U. P.** Paper-chromatographic studies on dicyandiamide and related compounds, 3782.

zersky, S. M., Pettinati, J. D., and **Kolman, S. D.** Micro-determination of orthophosphate in pres-ence of adenosine triphosphate after deproteinisa-tion with trichloroacetate buffer, 1083.

zgovaya, T. A. See **Vysokova, I. L.**, 17.

zisek, M., and **Klimanek, L.** Radiometric determination of functional end-groups in poly-(ethylene terephthalate), 968.

Mracec, M. See **Ciuhandu, G.**, 1465.

Mrozowska, A. See **Pierzchalski, T.**, 1114.

Mrozowski, A., and **Lipiec, T.** Spectrophotometric determination of microgram amounts of chlor-quinaldol with iron^{III}, 490.

Muck, G. A., Sundararajan, N. R., Tobias, J., and **Whitney, R. McL.** Photometric determination of carbonyl compounds, 509.

Muecke, H. See **Geyer, R.**, 3380.

Muehl, J. V. See **Cernicki, B. K.**, 329.

Muehl, P. See **Fischer, C.**, 2714.

Mueller, H. See **Uhlemann, E.**, 1332, 1973.

Mueller, K., and **Merz, W.** Micro-determination of monosubstituted acetylenic compounds by deter-mination of active hydrogen with sodium diethyldihydroaluminate, 3492.
— See also **Merz, W.**, 1442.

Mueller, M. See **Curtius, H.-C.**, 1313.

Muetterties, E. L. See **Jesson, J. P.**, *Book*: Sept.

Muir, A. H., jun. Analysis of complex Mossbauer spectra by stripping techniques, 1311.

Muir, D. H. T. See **Harris (Holdings) Ltd., Philip**, 3230.

Mukai, J.-I., and **Akune, S.** Paper chromatography of diribonucleoside monophosphates, 436.

Mukhamedzhanova, D. See **Khadeev, V. A.**, 3271, 3390.

Mukherjee, M. See **Mitra, N. K.**, 3318.

Mukherjee, S. See **Bose, S.**, 3014.

Mukherjee, S. K. See **Datta, C.**, 3840.

Mukhin, N. N., and **Aleskovskii, V. B.** Determina-tion of oxygen dissolved in a liquid by isotopic dilution, 2078.

Mukhina, R. E. See **Zhechkova, L. A.**, 806.

Mukimov, A. M. See **Mamedov, I. A.**, 1394.

Mulay, I. L. See **Mulay, L. N.**, 677.

Mulay, L. N., and **Mulay, I. L.** [Analytical reviews, 1968]—Magnetic susceptibility: aspects of instru-mentation and applications to chemistry and solid-state science, 677.

Mulder, F. J. See **Buisman, J. A. K.**, 3752, and **Hanewald, K. H.**, 3752.

Mule, A. See **Farina, E.**, 367.

Mulhern, B. M. Improved separation and removal of organochlorine insecticides from thin-layer plates, 1861.

Mullard Ltd. Improved method and apparatus for weighing, 3137.

Mulleman-Marsy, D. See **Guyot-Hermann, A.**, 2974.

Mullen, J. G., and **Ok, H. N.** Use of cobaltous oxide as a compact single-line source, 1311.

Muller, J. P. GLC determination and i.r. identifica-tion of ethanol, diethyl carbonate and diethyl oxalate in a ternary mixture, 2789.

Munakata, M. See **Shigematsu, T.**, 168.

Munemori, M. See **Ishii, T.**, 2222, and **Musha, S.**, 2709.

Munier, R. L., Thommegay, C., and **Drapier, A.-M.** Separation of 5-dimethylaminonaphthalene-1-sulphonyl derivatives of amino-acids by TLC, 422.

Muniz, J. See **Villanua, L.**, 3054.

Munnelly, T. I. Analysis of multi-component ester mixtures by dual-temperature differential kinetics, 3519.

Munro, D. C. Effects of acidity and extraction ratio in a solvent-extraction procedure for atomic-absorption flame spectrophotometry, 1956.

Murashova, V. I. See **Pavlova, V. N.**, 829.

Murfin, P. A. Estimation of creatinine in urine of jaundiced patients, 2928.

Murphy, C. B. [Analytical reviews, 1968]—Thermal analysis, 677.

Murphy, D., and **West, H. F.** Multi-purpose gas-chromatographic assay for urinary corticosteroids, 2310.
Murphy, J. E. See **Salim, E. F.**, 1144.
Murphy, T. J. See **Catanzaro, E. J.**, 2055.
Murray, K. E., and **Stanley, G.** Class separation of flavour volatiles by liquid chromatography on silica gel, 1161.
Murray, M. See **Smith, Gerald F.**, 1606.
Murray, T. K., **Erdody, P.**, and **Panalaks, T.** Determination of vitamins D_2 and D_3 in pharmaceutical preparations by GLC, 2990.
Murtazaev, A. M., **Tuichiev, E.**, and **Abdullaev, Sh. U.** Polarographic determination of dichlorobis(nicotinamido)cobalt, 1712.
Murzin, G. M. See **Reznikov, S. A.**, 3523.
Musa, M. See **Davies, I. J. T.**, 2273.
Musakin, A. P., and **Pal'mskii, V. G.** Separation of pyridine bases by paper electrophoresis, 2821.
Musgrave, A. 'Twin-film' chromatography of gibberellins, 3847.
Musha, S., **Munemori, M.**, and **Nakahara, T.** Atomic-absorption spectrophotometric determination of tellurium, 2709.
— See also **Ishii, T.**, 2222, and **Wasa, T.**, 3510.
Mushran, S. P. See **Prakash, O.**, 2070.
Mushynski, W. E. See **Spencer, J. H.**, 2955.
Musilova, M. See **Knizek, M.**, 167, 1415.
Mustafin, I. S., **Molot, L. A.**, and **Arkhangel'skaya, A. S.** Use of polyhydric triphenylmethane dyes as reagents for aluminium. I. Catechol violet, 760.
— See also **Frumina, N. S.**, 189, and **Molot, L. A.**, 767.
Muto, G. See **Nozaki, K.**, 2094.
Mutschler, E. See **Roder, E.**, 3938.
Mutter, M. Analysis of alkanesulphonates for ionic constituents by ion exchange, 2830.
Myasoedov, B. F., **Pal'shin, E. S.**, and **Molochnikova, N. P.** Extraction into isoamyl alcohol of the benzeneseleninates of protactinium and other elements, 2031.
Myasoedova, G. V., and **Bol'shakova, L. I.** Concentration of elements by sorption on phenol-formaldehyde resins, 3276.
Myers, H. S. Determination of water in gases including hydrocarbons by GSC, 2225.
Myers, L. W. See **Crompton, T. R.**, 328.
Myers, M. N. See **McLaren, L.**, 613.
Myhre, B. O., and **Ebell, L. F.** Operation of an automatic micro-Kjeldahl flask washer, 3134.
Mykytiuk, A., and **Berman, S. S.** Mask for selecting orders for use with the Jarrell - Ash order sorter, 2496.
— See also **Tymchuk, P.**, 2592.
Myrick, J. W. Colorimetric determination of benzocaine in drugs, 1699.

N

Nabiev, M. N. See **Mamedov, I. A.**, 93.
Nabilsi, A. H. See **Irving, H. M. N. H.**, 2556, 2591.
Nabivach, V. M., and **Yatsenko, S. S.** Study of different samples of benzene by GLC, 3529.
Nabivanets, B. I., and **Kudritskaya, L. N.** Ion exchange in mixed solvents and optimum conditions for the separation of elements by anion exchange, 3306.
Nachman, M., and **Romalo, D.** Simple projecting device for observing cathode operation in a plasma-arc torch, 2499.
Nadezhda, A. A. See **Gorbenko, F. P.**, 2608.
Nadezhina, L. S., **Grinzaid, E. L.**, and **Novakovskaya, E. G.** Determination of lead, tin and arsenic by a.c. polarography, 1970.
Nadirshaw, M., and **Cornfield, A. H.** Direct det mination of manganese in soil extracts by atom absorption spectrophotometry, 3097.
Nadkarni, R. A., and **Haldar, B. C.** Determinati of silicon, phosphorus and sulphur in alloy st by neutron-activation analysis, 3457.
Nag, K. See **Dutt, N. K.**, 1326.
Nagai, H., and **Ohkura, Y.** [Annual review, 1968] Chromatographic analysis, 1948.
Nagasawa, K. Automated recording of the molec lar-sieve effects of Sephadex in using liqu chromatography with thermal detection, 624.
Nagura, M. See **Iida, C.**, 2048.
Nagy, B. See **MacLeod, W. D., jun.**, 1299, a **Modzeleski, V. E.**, 1492.
Nagy, G. T. See **Takacsi Nagy, G.**
Nagy, L. G., and **Giber, J.** Adsorption phenome in the determination of trace impurities in g manium and silicon by activation analysis, 1
Nagy, Z., and **Samsoni, Z.** Preparation of spect filters with continuously variable absorptio 3215.
Naidu, R. R. Use of 2′,3′,4′-trihydroxychalcone reagent for niobium and for tantalum, 2696.
Najman, L. See **Groszkowski, S.**, 1145.
Nakagawa, G. See **Wada, H.**, 2631, 3466.
Nakagawa, H. M., and **Thompson, C. E.** Atom absorption determination of tellurium, 2708.
— See also **Thompson, C. E.**, 2598.
Nakagawa, T., **Miyajima, K.**, and **Uno, T.** Alk fusion - GLC of alkanesulphonates, 1497.
Nakahara, T. See **Musha, S.**, 2709.
Nakama, A. See **Masukawa, K.**, 3688.
Nakamoto, K. See **Barish, W. B.**, 3221.
Nakamura, Akie. See **Tsuji, A.**, 2811.
Nakamura, Akitada. See **Tsuji, A.**, 2811.
Nakamura, M. Determination of fructose in presence of a large excess of glucose. I. Modifi cysteine - sulphuric acid method, 1565; Modified anthrone - sulphuric acid method a modified phenol - sulphuric acid method, 15 III. Skatole - hydrochloric acid and indol-3- acetic acid - hydrochloric acid reactions, 29 IV. Modified resorcinol - thiourea - hydrochlo acid reaction, 2903; V. Modified cystein carbazole reaction, 2903.
Nakamura, T. See **Fukuda, T.**, 1948.
Nakarai, T. See **Niki, E.**, 1948.
Nakashima, R. See **Furukawa, M.**, 3311.
Nakatsukasa, Y. See **Fujimoto, M.**, 1363.
Nakaya, S. See **Tsunogai, S.**, 1208.
Nalbantoff, J. Determination of the dissolv powers of solvents for oils or fats, 3571.
Nall, W. R. Determination of significant tr elements in alloy steel. I, 175.
Nambara, T., **Kudo, T.**, and **Ikeda, H.** Analyti studies on steroids. XIX. Separation of i meric 16- and 17-oxosteroids by GLC, 1591.
Nambi, K. S. V., and **Sunta, C. M.** Thermolu nescence dose measurement with natural calci fluoride powder, 2526.
Nambudiri, E. S. Determination of arecoline areca nuts by a rapid distillation method, 3047
— See also **Krishnamurthy, N.**, 3914.
Namiki, M., and **Goto, H.** Simultaneous determi tion of small amounts of lead and zinc in iron a steel by cathode-ray polarography, 2113.
— See also **Goto, H.**, 180.
Nand, P. See **Chandra, U.**, 2362.
Nangniot, P. See **Devaleriola, M.**, 3870, **Fabry, J.**, 999.
Nanikawa, R. Determination of ethanol in urine GLC, 3636.

nu, I., Bacaloglu, R., and **Pop, G.** Study of the .r. spectra of homo- and co-polymers of vinyl acetate. II. Vinyl acetate - maleic acid diester copolymers, 965.
poli, C. A. See **Cortellessa, G. C.,** 3590.
rasaka, H., and **Kaji, K.** Study of the combustion of polyethylene in an oxygen bomb, 2240.
rasaraju, T. S. B. See **Chickerur, N. S.,** 1333, and **Singh, Rudra P.,** 749.
rasimham, K. C., and **Sundararajan, K.** Impedance titration of potassium iodide with potassium permanganate, 668.
rayanan, M. N. See **Rao, E. V.,** 1124.
rbutt-Mering, A. B. See **Derlikowski, J.,** 1683.
rgolwalla, S. S., Crambes, M. R., and **DeVoe, J. R.** Evaluation of systematic errors in activation analysis for oxygen, 825.
See also **Lundgren, F. A.,** 674.
scutiu, T. See **Popa, G.,** 693.
sh, D. L. Determination of trace amounts of rare-earth-metal impurities in yttrium oxide, 775.
sh, R. J., and **Evans, M. J. B.** Vapour thermostat and sample holder for simultaneous X-ray and gas-sorption studies, 2483.
souri, F. G. See **Cardwell, T. J.,** 128.
ssi, P., Treves, C., and **Ramponi, G.** Visualisation of acylphosphatase after zone electrophoresis and thin-layer gel filtration, 453.
th, R. L., and **Debnath, B.** Modification of the Fiske - Subbarow determination of serum inorganic phosphate, 362.
tional Research Development Corporation. Isotope method for determining metallic mercury in the air, 1194. Improved gas burners for flame photometry, 3202. Determination of dissolved gases in liquid, 3882. Apparatus for detecting carbon dioxide in the atmosphere, 3903.
ucke, W. Analytical study of peat: review, 1181.
ude, W. J., Peisach, M., Pretorius, R., and **Strebel, P. J.** Determination of carbon, nitrogen and oxygen in gases by neutron time-of-flight spectrometry, 1336.
uman, L. W., and **Galster, W.** Factors affecting recovery of aspartic and glutamic acids using a multiple-column analytical system, 1055.
umann, R., and **Schmidt, Wolfgang** [Darmstadt, Germany]. Cathode-ray polarographic determination of trace elements in tin chlorides, 3389.
umann, S. See **Issleib, K.,** 916.
yar, M. R. See **Viswanadham, C. R.,** 2673.
zarenko, V. A., and **Antonovich, V. P.** Reactions of ions of multivalent elements with organic reagents. VII. Interaction of scandium with polyhydroxyflavones, 772.
and **Flyantikova, G. V.** Analysis of high-purity substances: progress report, 3.
zarova, A. A., and **Eremenko, V. Ya.** Determination of DDT and BHC in natural water after alkaline hydrolysis, 1205.
zmitdinov, M. K. See **Abdusalyamov, N.,** 3475, and **Ganiev, A. G.,** 136.
be, W., Riegler, H., and **Menzell, W.** Remat process refractometer, 4019.
besar, B. Technique for incorporation of aqueous liquids in sodium peroxide melts for microanalysis, 593.
and **Norman, D. M.** Use of a rotating oven in a general sealed-vessel sample-decomposition technique, 585.
ddermeyer, P. A., and **Rogers, L. B.** Study of gel-filtration behaviour of inorganic salts, 692.
dved, J. Kinetic determination of copper in alkaline medium, 1988.
Neeb, R. Inverse Polarographie und Voltammetrie, *Book*: Oct.
Neethling, L. P. See **Conradie, J. D.,** 1072.
Nefedov, V. D., Zhuravlev, V. E., Molchanova, N. G., and **Kalinina, N. N.** Separation of phenyl derivatives of elements of Periodic group IV by TLC, 2662.
Neff, A. W. See **Krzeminski, L. F.,** 2286.
Negina, V. R., Kozyreva, E. A., and **Bogatova, Z. S.** Determination of titanium oxides in titanium hydride and titanium metal, 3393.
— **Krasheninnikova, E. P., Mikhailina, A. T., Ratnikova, K. S.,** and **Dokuchaeva, M. T.** Simultaneous determination of small amounts of volatile sulphur and chlorine in polyethylene and other polymers, 327.
Nel, J. W., and **Moir, R. J.** Determination of metals in ovine fluids by atomic-absorption spectrophotometry. II. Calcium, 986.
Nelsen, C. E. See **Garry, P. J.,** 1536.
Nelson, A. I. See **Toledo, R.,** 3794.
Nelson, G. O., and **Griggs, K. S.** Dynamic method for producing known concentrations of gas and solvent vapour in air for calibration of detection instruments, 3119.
Nelson, K. H. See **Lysyj, I.,** 2166, 2445, 3873.
Nelson, M. J., and **Datta, P. R.** Micro-determination of endrin in presence of aldrin and dieldrin by i.r. spectroscopy, 548.
Nemec, J. Use of a semi-micro distillation flask, 1835. Operation of a micro-distillation apparatus, 1836. Filtration adapter for semi-micro preparative work, 1838.
— See also **Sklarny Kavalier, N. P.,** 3912.
Nemes, L. Measurement of i.r. refractive indices of organic liquids, 2518.
Nemodruk, A. A., and **Bezrogova, E. V.** Photochemical reactions in analytical chemistry. IV. Photometric determination of uranium$^{\mathrm{VI}}$ via acetaldehyde formed during photochemical oxidation of ethanol, 2651.
— and **Glukhova, L. P.** Extraction and determination of uranium$^{\mathrm{VI}}$ (as its complex with arsenazo III), 3370.
— **Palei, P. N.,** and **Glukhova, L. P.** Determination of uranium$^{\mathrm{VI}}$ with arsenazo III in perchloric acid medium, 2034.
Nenova, P. See **Karadakov, B.,** 2736.
Nesemann, E., Schroeder, R., and **Seehofer, F.** Determination of insecticides in tobacco and tobacco smoke. I. Determination of organochlorine insecticides, 2426; II. Carbamate insecticides, 3638.
Neskovic, N. M., and **Kostic, D. M.** Determination of rat-liver phospholipids by TLC, 2913.
Nesterov, V. V., Belen'kii, B. G., and **Erastov, D. P.** Analysis of dinitrophenyl derivatives of amino-acids by measurement of spot areas after TLC, 3156.
Neszmelyi, A., and **Imre, L.** Evaluation of i.r. absorption-band intensities in measurements above room temperature, 646.
— See also **Varsanyi, G.,** 645.
Netzel, D. A., Hermann, T. S., and **Bentley, F. F.** Study of the i.r. spectra of polysubstituted pyrimidines, 2210.
Netzer, A. See **Shamir, J.,** 3913.
Neubert, P. See **Trier, K.,** 356.
Neuburger, M., and **Fourcy, A.** Determination of molybdenum and tungsten in vegetables rich in calcium by neutron-activation analysis, 518.
Neuenhausen, H. E. See **Baudisch, J.,** 143.
Neufeld, E., and **Chayen, R.** Separation of imidazoles in the histidine-loading test, 2327.

Neuhoff, V. Technique for high-speed capillary centrifugation, 1839. Apparatus for centrifuging very small volumes, 2451.

Neumann, J., Ditz, J., and **Suk, V.** Metallochromic indicators of the calcon type for determination of calcium, 3265.

Neurath, G., and **Luettich, W.** Separation of 4-(4-nitrophenylazo)benzoates of alcohols by GLC, 895. Separation of 2-hydroxy-5-nitrobenzylidene derivatives of asymmetric hydrazines by GLC, 907.

Neve, R. de, Soete, D. de, and **Hoste, J.** Non-destructive activation analysis for trace impurities in germanium, 113.

— See also **Boyadzhov, I.,** 151.

Neville, G. A. See **Nigam, I. C.,** 954.

Neville, J. R. See **Ikels, K. G.,** 1222, and **Reyes, R. J.,** 2866.

Newburgh, R. W. See **Mezei, C.,** 1050.

Newton, P. R. See **Lysyj, I.,** 2445, 3873.

Newton-John, H. See **Dawson, J. B.,** 2858.

Ney, K. H. See **Freytag, W.,** 3809.

Nguyen Dyk Tu. See **Pilipenko, A. T.,** 3262.

Nguyen Mong Shinh. See **Pilipenko, A. T.,** 714.

Nguyen Thi Tam. See **Thieme, Heinz** [Leipzig, Germany], 2831.

Nguyen Van Byu, Zhiglinskii, A. G., and **Turkin, Yu. I.** Spectrographic analysis with an interferometer, 3986.

Nicholas, P. V. See **Dickes, G. J.,** 3059.

Nicholson, J. G. See **Brown, I.,** 2460.

Nicol, W. M. Relation between boiling-point elevation and concentration of pure sucrose solutions, 3789.

Niefind, H.-J. See **Drews, B.,** 1762, 1764.

Nielsen, R., and **Rasmussen, H.** Fractionation of extracts of firefly tails by gel filtration, 3739.

— See also **Rasmussen, H.,** 3726.

Nielsen, V. R., and **Hvolby, A.** Determination of nickel in crude hydrogenated fats, 2535.

Niewiadomski, H. See **Rudnicki, A.,** 3803.

Nigam, I. C., and **Neville, G. A.** Essential oils and their constituents. XLI. Identification of sesquiterpene hydrocarbons in oil of opoponax, 954.

Nigam, R. C. Complexometric determination of calcium and magnesium in magnesite by co-precipitation of calcium with strontium sulphate, 2002.

Nihei, Y., Oda, S., Niki, E., and **Kamada, H.** Ratio-recording double-beam vacuum-u.v. spectrophotometer utilising a rotating-cell method, 1900.

Nihongi, T. See **Hayano, S.,** 1494.

Niizeki, N. Crystal structure analysis of niobium-doped rutile single crystals, 1310.

Nikeryasova, S. V., and **Litovchenko, G. D.** Determination of methyl isocyanate and carbon tetrachloride in their mixture by GLC, 2179.

Niki, E., and **Nakarai, T.** [Annual review, 1968]—Automation in analytical chemistry, 1948.

— See also **Nihei, Y.,** 1900.

Nikitina, O. N. See **Zil'bershtein, Kh. I.,** 642, 1269.

Nikkari, T., and **Haahti, E. O. A.** Analysis and isolation of complex saponification products of natural lipids by TLC, 3665.

Nikolaev, A. V., Torgov, V. G., Gil'bert, E. N., Mikhailov, V. A., Pronin, V. A., Stadnikova, L. G., and **Kotlyarevskii, I. L.** Comparison of the extractive power of dioctyl sulphide, dioctyl sulphoxide and dioctyl sulphone with respect to mercury^{II}, gold^{III}, silver, palladium^{II}, platinum^{IV} and iridium^{IV} in nitric and hydrochloric acid solutions, 706.

Nikolaev, G. A. See **Panchenko, B. I.,** 3593.

Nikolaeva, E. R., Agasyan, P. K., and **Tarenov K. Kh.** Amperometric titration of molybdenum with a solution of vanadium^{II} or chromium^{II}, 14

— **Agasyan, P. K., Tarenova, K. Kh.,** and **Boikov S. I.** Electrochemical methods for determinati of molybdenum^{VI} with titanium^{III}, 3428.

Nikolin, B. See **Repas, A.,** 1669.

Nikula, T. D. Use of a strongly basic anio exchange resin in the chromatographic dete mination of free amino-acids in blood serum an urine, 2934.

Nikul'skaya, G. N. See **Laskorin, B. N.,** 3973.

Niles, F. E. See **Ozolins, A.,** 3194.

Nilsson, I. M. See **Redalieu, E.,** 1104.

Nilsson, J. L. G., Farley, T. M., and **Folkers,** Determination of biosynthetic precursors fro carbon-14-labelled 4-hydroxybenzoic acid ubiquinone, 2300.

Nin'o, N., and **Taneva, N.** Spectrophotomet determination of 4-acetamidobenzaldehyde is nicotinoylhydrazone and thiacetazone in table 3775.

Ninov, E. See **Pruvcheva, Kh.,** 3450.

Nipal, F. I. See **Ionescu Nipal, F.**

Nippon Oil Co. Ltd. Apparatus for determinati of water in mineral oil, 3919.

Nishi, S., and **Horimoto, Y.** Gas-chromatograp behaviour of traces of alkylmercury compoun 2185.

Nishimura, M. See **Tsunogai, S.,** 1208.

Nisli, G., and **Townshend, A.** Spot test for detecti of iodate in the presence of periodate: applicati to the detection of *vic*-dihydroxy-compounds, 88

Nispen tot Pannerden, E. B. L. M. van. S **Pannerden, E. B. L. M. van N. tot.**

Nisselbaum, J. S. Effects of phosphate and oth anions on measurement of the activities of t isoenzymes of rat-liver aspartate aminotra ferase, 1097.

Nissen, O. I. See **Frederiksen, S.,** 3005.

Nitelea, I. See **Timar, M.,** 1555.

Nithyanandan, V. V. See **Sarma, P. S. N.,** 1172.

Niwa, M. See **Saito, M.,** 1948.

Nixon, F. See **Wood, E. C.,** 545.

Nixon, G. S., Smith, H., and **Livingston, H.** Determination of arsenic, antimony, copper, zi manganese, mercury, molybdenum and vanadi in human tooth enamel, 1.

Nobuoka, M. See **Ichida, T.,** 2335.

Nogare, S. D. See **Dal Nogare, S.**

Nogteva, K. G. See **Shlionskaya, M. A.,** 3583.

Noguchi, T. See **Kido, R.,** 420.

Noiret, R. TLC for total 'de-lipidation' of plas extracts containing dehydroepiandrostero androsterone and aetiocholanolone, 1593.

Noirfalise, A. See **Grosjean, M. H.,** 3625.

Nolte, C. R. See **Strelow, F. W. E.,** 2560.

Noma, A. T. See **Olson, A. C.,** 3699.

Nomura, N. S. See **Frei, R. W.,** 1794.

Nomura, T. Spectrophotometric determination cyanide ions with mercury^{II}-methylthyn blue complex, 3378.

— **Takeuchi, K.,** and **Komatsu, S.** Volumet determination of cyanide ions with the ED complex of mercury^{II} and metalphthalein indicator, 2666.

Nonaka, A. Adsorption gas chromatography polar organic compounds with use of wa vapour as carrier, 2162.

Noravyan, A. A. See **Rudenko, B. A.,** 2471.

Nordstrom, C. G. Determination of oestrogen pregnancy urine, 1590.

Nordwig, A. Application of amino-acid analysis protein chemistry, 1309.

kus, P. K., and **Markevichiene, R. M.** Sequential itration of hypophosphite and phosphite in the ame sample, 126.

and **Stul'gene, S. P.** Sulphite - iodimetric determination of formaldehyde, 2170. Use of osmium$^{\text{VIII}}$ oxide as catalyst in titrimetry. VI. Stability and de-activation of solutions of this oxide, 2539; VII. Potentiometric determination of tetrahydroborate with potassium ferricyanide, 3346.

rman, D. M. See **Nebesar, B.**, 585.

rman, G. See **Saur, W. K.**, 375.

rth American Aviation, Inc. Toxicant detector comprising luminous micro-organisms, 3122.

rwitz, G., and **Apatoff, J. B.** Determination of ethylene dimethacrylate and camphor in nitrocellulose-based propellents by GLC, 978.

sek, J. Determination of traces of chromium in preserves, 1723.

shiro, M., and **Jitsugiri, Y.** Determination of lithium meta- and di-silicates devitrified from glass by i.r. absorption spectrophotometry, 2770.

sova, L. I. See **Ozerova, G. P.**, 2074.

ta, G. See **Goretti, G. C.**, 248.

ujaim, A. A., and **Richards, L. P.** Evaluation of liquid scintillators as potential radio-indicators in paper chromatography, 1851.

vak, J., **Funke, A.**, and **Kleinert, P.** Determination of small amounts of iron$^{\text{II}}$ in nickel ferrite and haematite, 2107.

vakovic, N. See **Piorr, W.**, 3824.

vakovskaya, E. G. See **Nadezhina, L. S.**, 1970.

vikov, A. I., and **Egorova, L. A.** Separation of aluminium from iron, zirconium and magnesium by precipitation of their hydrated oxides, 2623.

and **Pirogova, T. A.** Separation of small amounts of thallium from gold by co-precipitation of the former with iron$^{\text{III}}$ hydroxide, 85.

vikov, E. G. See **Kondratov, V. K.**, 933, 3558.

vikov, V. I. See **Forostyan, Yu. N.**, 2978.

vikova, E. I., and **Sanina, N. L.** Absorptiometric determination of phenol in cyclohexanone obtained by direct hydrogenation of phenol on a palladium catalyst, 2194.

vikova, E. S., and **Yakunina, G. M.** Determination of nitrate and nitrite ions in an alkaline electrolyte, 124.

vikova, N. N. See **Pokrovskaya, E. I.**, 985.

vitskaya, R. N. See **Rudas', V. I.**, 3495.

vorusskaya, N. V. See **Gal'pern, G. M.**, 331.

votna, Z. See **Pristoupil, T. I.**, 3722.

votny, M., and **Tesarik, K.** Surface treatment of glass capillaries for gas chromatography, 3949.

wak, A. V., and **Malmstadt, H. V.** Selective gas-chromatographic detector utilising emitted radiation from a sensitised flame, 2467. Versatile ionisation detector system for gas chromatography, 3959.

wak, P. See **Liss, E.**, 1313.

zaki, K., and **Muto, G.** Coulometric titration of fluoride ions with a rotating beryllium indicator-electrode, 2094.

zawa, Y. See **Ito, Yuki**, 3719.

nn, T. A. Use of liquid-chromatograph accessories, 1844.

nnikhoven, R. Study of design of a gas chromatograph, 3157.

ritdinova, M. See **Talipov, Sh. T.**, 2025, 3366.

rok, D., **Taylor, G. L.**, and **Stephen, A. M.** Separation of esters of butane-2,3-diol by GLC, 257.

tter, L. J., and **Privett, O. S.** Determination of lipid classes via TLC employing charring and densitometry, 3666.

Nyitray, L. Determination of oxytetracycline hydrochloride in oxytetracycline eye ointment, 2364.

Nykanen, L., **Puputti, E.**, and **Suomalainen, H.** Determination of the composition of the aroma in whisky and rum by customary methods and by GLC, 1773.

Nystrom, E. Preparation of methylated Sephadex and lipophilic Sephadex ion exchangers, 3971.

O

Oba, T., and **Koyama, R.** Application of i.r. absorption spectrometry to the examination of drugs and their preparations. XVIII. Studies of the polymorphism of three cardioactive digitalis glycosides, 2359.

Obenshain, F. E. Coulomb excitation techniques in Mossbauer methodology, 1311.

Oberhansli, P. See **Campbell, N. C. G.**, 230.

Obermiller, E. L., and **Charlier, G. O.** Separation of nitrogen, oxygen, argon, carbon monoxide, carbon dioxide, hydrogen sulphide and sulphur dioxide by GSC, 3305.

Oberthin, H. K. See **Kallmann, S.**, 844.

Obiols, J. See **Montagut Buscas, M.**, 3604.

Oblas, D. W. See **Cosgrove, J. F.**, 1373.

Obol'nikova, E. A. See **Yanotovskii, M. Ts.**, 442.

Obrenovic-Palgoric, I., **Gal, I. J.**, and **Vajgand, V. J.** Spectrophotometric determination of uranium in organic solutions of tributyl phosphate, 98.

Obrikat, H. See **Franzke, C.**, 2167, and **Grunert, K. S.**, 244.

Obrusnik, I., and **Adamek, A.** Replacement substoicheiometry and its application in activation analysis, 1930.

— See also **Adamek, A.**, 1.

Ockerman, P. A. Determination of deficiency of β-galactosidase in skin, 1655. Determination of 4-methylumbelliferyl-β-glucosidase activity in human blood plasma, 3733.

O'Connor, R. T. Spectroscopic analysis of fatty acids and lipids: review, 2. Use of spectroscopy in analytical chemistry: review, 629.

— See also **Piccolo, B.**, 2.

Oda, S. See **Nihei, Y.**, 1900.

O'Donnell, T. A. See **Bond, A. M.**, 156, 3432.

Oeien, A., and **Khera, A. K.** Spectrophotometric determination of aluminium in soil extracts, 1782.

Oette, K. See **Doss, M.**, 1313.

Oganezov, K. A. See **Vysokova, I. L.**, 17.

Ogata, J. N. See **Bevenue, A.**, 1868.

Ogata, K. See **Uchiyama, K.**, 2937.

O'Gorman, L. P. Estimation of 4-hydroxy-3-methoxymandelic acid in serum and urine by a radioactive carbon-14 labelling technique, 392.

Oguma, K. Separation of scandium, yttrium, the rare-earth metals, thorium and uranium$^{\text{VI}}$ by TLC, 3357.

Ogura, H., **Shikiba, Y.**, and **Yamazaki, Y.** Determination of flavonoids of pharmaceutical interest, 1125.

Ogura, N., and **Hanya, T.** Ultra-violet absorption as an index of the pollution of sea-water, 574.

O'Hara, C. E. Effect of reducing sugar on the biuret colorimetric determination of proteins in wheat flour, 507.

Ohkura, Y. See **Nagai, H.**, 1948.

Ohls, K. See **Koch, K. H.**, 865.

Ohlson, R., **Persmark, U.**, and **Podlaha, O.** Determination of citric acid in fats, 3083.

Ohman, R., and **Hygstedt, O.** Isolation of sialyllactosides with the aid of gel filtration, 2293.

Ohme, R., **Schmitz, E.**, and **Sterk, L.** Synthesis and identification of monoalkylhydrazines, 261.

Ohnishi, M. See **Yamamoto, O.,** 226.
Ohwada, K. Study of the i.r. spectra of organic phosphates in the combination region of the carbon - oxygen and phosphorus - oxygen vibrations, 2182.
Ok, H. N. See **Mullen, J. G.,** 1311.
Okada, M. See **Matsui, Michio,** 3508.
Okamoto, J. [Annual review, 1968]—Mass spectrometry, 1948.
Okamoto, N. See **Yamamoto, Yuroku,** 2064.
Okano, H. See **Tomura, T.,** 1310.
Okhanova, L. A. See **Alimarin, I. P.,** 3414.
Oksengorn, B. See **Centre National de la Recherche Scientifique,** 1273.
Okura, Y., Yasuda, K., Watanabe, Toshio, and **Watanabe, S.** [Annual review, 1968]—Ferrous analysis, 1948.
Okuyama, S. See **Furuya, K.,** 181.
Olcott, H. S. See **Van der Veen, J.,** 384.
Olczak, M. D., and **Maslowska, J.** Detection of titanium^{IV} on paper chromatograms, 803.
Oldham, K. B. See **Parry, E. P.,** 2132.
Oldham, K. G. Spurious isotope effects in enzymic reactions with tritium-labelled substrates, 2962.
Olech, A. See **Kalinowski, K.,** 459.
Olechnowicz-Stepien, W., and **Rzadkowska-Bodalska, H.** Application of NMR in investigation of flavonoid compounds, 1074.
Olejniczenko, M. See **Gregorowicz, Z.,** 3334.
Olesen, O. V. Determination of 5-(*p*-hydroxyphenyl)-5-phenylhydantoin in urine by TLC, 371.
Olfat, M. D. See **Bancher, E.,** 2933.
Oliveira, D. B. de. See **Borba de Oliveira, D.**
Oliver, W. R. X-ray fluorescence analysis for strontium in bone, 2862.
Ol'khovich, P. F. See **Pilipenko, A. T.,** 200, 872.
Olsen, G. H. See **Kirshen, N. A.,** 2684.
Ol'shanova, K. M., and **Kunitskaya, L. A.** TLC for qualitative analysis of inorganic cations, 1324.
Olson, A. C., White, L. M., and **Noma, A. T.** Scintillation counting of the ninhydrin - carbon-14-labelled amino-acid reaction products from an automatic amino-acid analyser, 3699.
Olson, A. D., and **Hamlin, W. B.** Determination of serum copper and zinc by atomic-absorption spectrophotometry, 3611.
— See also **McRoberts, J. W.,** 2311.
Olson, A. O. Estimation of the products of alkylation of DNA, 2954.
Olson, D. C. See **Sherman, E. O., jun.,** 2521.
Olson, P. B. Determination of carbon and hydrogen in highly fluorinated substances with a commercial analyser, 214.
Olsthoorn-De Leeuw, C. See **Labruyere, B.,** 520.
Olver, J. W. See **Bessette, R. R.,** 1965.
Omori, S. See **Hamada, T.,** 379.
O'Neil, D. J. Flash pyrolysis - GLC using an internal standard for determination of resin in a model thermosetting composite system, 1518.
O'Neill, J. J. See **Duffy, T. E.,** 3644.
Ono, S. See **Takagi, M.,** 3792.
Onosova, S. P., Kuntsevich, G. K., and **Lisienko, D. G.** Spectrophotometric study of the interaction of scandium ions with 3-cyano-1,5-bis-(2-hydroxy-5-sulphophenyl)formazan, 87.
Onu, V. See **Schiopu, M.,** 2929.
Onuma, N. See **Tomura, K.,** 1376.
Onur, E. See **Yalcindag, O. N.,** 1701.
Onuska, F., Janak, J., Tesarik, K., and **Kiselev, A. V.** Separation of biphenyl and the terphenyls by GSC on graphitised carbon black and on Chromosorb coated with caesium chloride, 290.
Oparina, G. K. See **Kheifets, V. I.,** 1524.
Oprescu, D. See **Ganescu, I.,** 1133.
Orav, M., and **Kokk, Kh.** Volumetric - catalyt
determination of traces of iron in calcium sulphi
of high purity, 2004.
Ordogh, M., and **Miriszlai, E.** Investigation of t
electrolyte balance of the inner ear by neutro
activation analysis for sodium and potassium,
Orekhov, V. T., Minaev, V. A., and **Bogdanov, G.**
Determination of tributyl phosphate by titrati
its complex with nitric acid, 1461.
Oreopoulos, D. G., Soyannwo, M. A. O., a
McGeown, M. G. Influence of gluconate a
glucogalactogluconate on fluorimetric estimati
of magnesium with 2,2′-dihydroxyazobenze
1540.
Orion Research Incorporated. Use of hali
sensitive electrochemical electrodes, 1919. U
of fluoride-sensitive electrode, 1920.
Orlandini, K. A., and **Korkisch, J.** Cation-exchan
separation of scandium from the rare-ea
elements, 2637.
— See also **Korkisch, J.,** 1984.
Orning, A. A. See **Smith, J. F.,** 1220.
Oro', J. See **Gelpi, E.,** 536.
Orsulak, P. J., Haab, W., and **Appleton, M.**
Determination of uric acid, xanthine and hyp
xanthine in plasma by TLC, 1080.
Orten, J. M., Gamble, W., Vaughn, C. B., a
Shrivastava, K. C. Micro-determination
urinary organic acids by column chromatograph
2294.
Ortner, H., and **Spitzy, H.** Investigation of pa
meters for the separation of alkali metals
Sephadex columns, 1347. Calculation and resu
of separation of alkali metals on dextran
columns, 2575.
Orzhekhovskaya, A. I., Yakovlev, P. Ya., Ku
L. L., Yakovleva, E. F., and **Surovoi, Yu.**
Study of conditions for the combustion of carb
in metals and alloys without the use of flux
1387.
Os, F. H. L. van, Zwaving, J. H., and **Richters, A.**
Comparison of determinations of sennosides
senna leaf and senna fruit, 466.
Os, M. den. See **Kies, H. L.,** 3329.
Osborn, R. H., and **Simpson, T. H.** Gel filtrati
of iodoamino-acids, 1061. Quantitative scann
of iodine-125 on thin-layer chromatograms, 24
Osborn, S. B. See **Battye, C. K.,** 1.
Oshkaya, V. P. See **Eglite, G. K.,** 2319.
Osinga, T. D. See **Wijngaarden, D. van,** 3084.
Osipchuk, I. L. See **Kalinin, A. I.,** 3409.
Osipov, O. A. See **Sokolov, V. P.,** 3955.
Oskotskaya, E. R. Absorptiometric comparison
azo-derivatives of catechol as reagents for galli
768.
Osman, E. M. Determination of shell in crabme
clams and oysters, 1728.
Ososkova, T. O. See **Khadeev, V. A.,** 3322.
Ospanov, Kh. K., and **Tember, N. I.** Phase analy
of copper compounds by means of sodium
dimercaptopropane-1-sulphonate, 1994.
— **Tember, N. I.,** and **Simson, T. F.** Polarograp
determination of copper^{I} with sodium
dimercaptopropane-1-sulphonate in the ba
electrolyte, 732.
Ossenberg-Neuhaus, H. See **Rauterberg, E.,** 3333
Ossicini, L., and **Lederer, M.** Chromatography
ion-exchange papers. XXIII. Further results
ion exchange with organic solvents, 694.
Oster, N. R. See **Snisarenko-Los'eva, L. P.,** 900.
Osterhoudt, H. W. See **Quinn, E. J.,** 332.
Osteryoung, R. A. See **Lauer, G.,** 3921.
Ostromow, H. See **Hofmann, W.,** 2850.
Ostrovskaya, M. F. See **Degtyareva, O. F.,** 759.

strowska, B. See **Lutomski, J.**, 3756.

tani, Y. See **Yamamoto, Yuroku**, 2101.

gonsuren, O. See **Abdullaev, Kh.**, 1383.

tomo, M. Spectrophotometric determination of rhodium^{III} with xylenol orange, 2130. Extraction - spectrophotometric determination of thorium^{IV} with methylthymol blue, 2649.

trebski, J. See **Boboli, K.**, 1271.

tsuka, S. Studies on spectrochemical analysis of semiconductor materials. VI. Spectrographic determination of silicon and zinc in indium arsenide with an alumina cup-electrode, 2021.

tt, D. E., and **Gunther, F. A.** Automated analysis of organophosphorus insecticides by wet digestion - oxidation and colorimetric determination of the derived orthophosphate, 1807.

— See also **Hearth, F. E.**, 1749.

tte, E. Application of a combination of three ionisation detectors in one gas chromatograph, 3171.

ttenstein, D. M. Comparison of support deactivation in GLC, 611.

ting, F. See **Pfleiderer, G.**, 3616.

venstone, J. A., and **Connon, A. F.** Direct determination of bilirubin in amniotic fluid by use of differences in extinction, 2334.

vodov, Yu. S. See **Vas'kovskii, V. E.**, 1450.

vodova, R. G. See **Vas'kovskii, V. E.**, 1450.

vsepyan, E. N. See **Tarayan, V. M.**, 2634.

wen, G. M. See **Garry, P. J.**, 1536.

wens, E. G. See **Dow Chemical Co.**, 3926.

kley, S. S. See **Gordon, G. E.**, 1429.

yagi, Y. See **Tanaka, G.**, 2272.

zawa, T. See **Arikawa, Y.**, 2703.

zerova, G. P., Mel'chakova, N. V., Nosova, L. I., and **Peshkova, V. M.** Extraction - spectrophotometric determination of niobium, 2074.

zimov, B. V. See **Koshkin, N. V.**, 920.

zolins, A., Lineberger, W. C., and **Niles, F. E.** Temperature effect on spectrometer slit-width and photomultiplier sensitivity, 3194.

zsoz, B. Colorimetric determination of bephenium hydroxynaphthoate, 3776.

P

abo, M. See **Covington, A. K.**, 1303.

alman, A. C. A. Automated self-indicating photometric titration of derivatives of barbituric acid, 3758.

alman, H. H. See **Lynn, S.**, 2206.

asivirta, J., and **Ayras, P.** Separation and NMR spectra of norbornanediols and methylnorbornanediols, 271.

bis, A., Sulis, E., Alessio, L., and **Mannucci, P. M.** Cellogel electrophoresis of haemoglobins, 2336.

cakova, V., and **Smolkova, E.** Use of dehydrogenation in reaction gas chromatography: identification of alcohols, 3499.

chadzhanov, D. N., Kalontarov, I. Ya., and **Khakimkhodzhaev, N.** Absorptiometric determination of molybdenum^{VI} with Saturn violet LRL, 2089.

cker, H. See **Garner, H. R.**, 1286.

ckman, D. L. See **Cullen, L. F.**, 2992.

cor, P., and **Spier, H. L.** Thermal analysis and calorimetry of fatty acid sodium soaps, 1496.

dayatty, J. D., Hensley, M. D., and **Van Kley, H.** Detection of traces of peptidase activity, 1100.

de, A. See **Schwartz, J. H.**, 1856.

ge, J. O. Complexometric determination of calcium in impure calcium carbonate and limestone, 3335.

Page, J. R. See **Masri, M. S.**, 1734.

Pagington, J. S. Survey of fruit and vegetables for dithiocarbamate residues, 555.

Paillard, N. Analysis of the aroma of apples by gas chromatography on capillary columns, 3805.

Paixao, L. M. See **Benz, C.**, 2067.

Pajakoff, S. Application of thermal decomposition of compounds of rare-earth metals in an oxygen atmosphere to the separation of these metals, 3367.

Pakalns, P. Spectrophotometric determination of niobium in steel with 4-(2-pyridylazo)resorcinol, 1423.

— and **Ivanfy, A. B.** Spectrophotometric determination of niobium in zirconium with 4-(2-pyridylazo)resorcinol, 807.

Pakanaev, Ya. I., and **Kamaeva, G.** Use of matrine *N*-oxide in analytical chemistry, 1325.

Pakhomov, V. P. See **Trubnikov, V. I.**, 279.

Pakula, R. See **Krepska, H.**, 2392.

Pal, S., and **Takacs, O.** TLC separation of amino-acids on cellulose - silica gel, 1604.

Paladienko, N. P. See **Rashkovan, B. A.**, 285.

Palagina, L. S. See **Komar', N. P.**, 2118.

Palatucci, F. See **Vanzetti, G.**, 1888.

Palei, P. N. See **Nemodruk, A. A.**, 2034.

Paletta, B. See **Wawschinek, O.**, 2893.

Palin, A. T. Determination of nitrogen trichloride in water, 3871.

Palitzsch, R., Beyrich, T., and **Pohloudek-Fabini, R.** TLC of appetite suppressors, 2358.

Pallotta, U. See **Losi, G.**, 2402.

Palm, A. See **Keay, J.**, 592.

Palmer, D. W. See **Giovanniello, T. J.**, 2278.

Palmer, N. J., and **Benson, W. R.** Collaborative study of TLC determination of carbaryl residues in apples and spinach, 1751.

Palmer, W. G. Alkaline hydrolysis of phosphorus sesquisulphide and heptasulphide, 3408.

Pal'mskii, V. G. See **Musakin, A. P.**, 2821.

Palo, V., Hrivnak, J., and **Gorner, F.** GLC determination of volatile compounds and fatty acids in milk and milk products, 1156.

Pal'shin, E. S. See **Myasoedov, B. F.**, 2031.

Paluch, M. See **Waligora, B.**, 910.

Pan, Y. K., and **Rogers, M. T.** Survey of the methods for analysis of NMR spectra, 650.

Panalaks, T. See **Murray, T. K.**, 2990.

Panasiuk, O. See **Cordon, T. C.**, 3575.

Panchenko, B. I., and **Nikolaev, G. A.** GLC determination of dimethylcyclosiloxanes in mixtures with linear oligomers, 3593.

Panday, V. K., and **Ganguly, A. K.** Use of atomic-absorption spectrophotometry for determination of impurities in alloys and metals, 2562.

Pandey, J. D., and **Saxena, O. C.** Titrimetric microdetermination of lanthanum, 1377.

Panea, J. See **Ionescu, M.**, 3544.

Pangtay, S. C. See **Chow Pangtay, S.**

Panina, L. A., and **Fain, B. S.** GLC determination of impurities in acrylonitrile, 262.

Panizzi, S. See **Maltese, P.**, 2098, 2247.

Pankratz, R. See **Gordon, J.**, 2424.

Pannerden, E. B. L. M. van N. tot. Determination of heparin, 1668.

Pansare, V. S. See **Tabib, S. N.**, 225.

Pantlitschko, M., and **Weippl, G.** Determination of haemoglobin-combining capacity of haptoglobin, 432.

Panzken, K.-J. See **VEB Labortechnik Ilmenau**, 3899.

Paolini, C. See **Serlupi-Crescenzi, G.**, 1636.

Papa, L. J., Dinsel, D. L., and **Harris, W. C.** Gas-chromatographic determination of hydrocarbons containing from one to twelve carbon atoms in automotive exhaust, 1817.
— and **Varon, A.** Concentration and determination of trace components masked by tail of major gas-chromatographic peak, 231.
Papadopoulos, C. See **Colovos, G.,** 1986.
Papadopoulou, C. P., Cazianis, C. T., and **Grimanis, A. P.** Neutron-activation analysis for vanadium, copper, zinc, bromine and iodine in *Pyura microcosmus*, 1.
Papariello, G. J. See **Cullen, L. F.,** 2992.
Papke, E. Analysis of some spasmolytics. II. Gravimetric determination of benzhexol hydrochloride, methyldiphenethylammonium chloride and [2-(*N*-benzylanilino)ethyl]ethyldimethylammonium bromide, 488; III. Argentimetric determination of benzhexol hydrochloride, methyldiphenethylammonium chloride and [2-(*N*-benzylanilino)ethyl]ethyldimethylammonium bromide, 2380; IV. Determination of benzhexol hydrochloride, methyldiphenethylammonium chloride and [2-(*N*-benzylanilino)ethyl]ethyldimethylammonium bromide by displacement titration or alkalimetry after ion exchange, 2380; V. Non-aqueous titration of benzhexol hydrochloride, methyldiphenethylammonium chloride and [2-(*N*-benzylanilino)ethyl]ethyldimethylammonium bromide, 3769; VI. Spectrophotometric determination of benzhexol hydrochloride, methyldiphenethylammonium chloride and [2-(*N*-benzylanilino)ethyl]ethyldimethylammonium bromide, 3769.
Papp, E. See **Havas, J.,** 3435.
Paquot, C., and **Dupiers, M.** Chromatography of methyl elaeostearates on columns of silicic acid impregnated with silver nitrate, 338.
Paraira, M., and **Buscarons, F.** Behaviour of water in gas chromatography on a stationary phase of vanadium - 8-hydroxyquinoline, 2573.
Pardue, H. L. See **James, G. E.,** 1236.
Pardun, H., Kroll, E., and **Werber, O.** Determination of the activity of bleaching earth. I, 3823.
Parekh, C. K., and **Eigen, E.** Tritium and carbon-14 counting in tissue samples by using a liquid-scintillation method, 1538.
Parihar, D. B., Sharma, S. P., and **Verma, K. K.** Trace analysis of explosives as π-complexes, 1525.
Parish, J. H. See **Campbell, N. C. G.,** 230.
Parissis, C. See **Van Loon, J. C.,** 1390.
Park, J. See **Walkenstein, S. S.,** 1933.
Parker, A. Electron micro-probe study of the homogeneity of glass discs for X-ray fluorescence analysis, 635.
Parker, F., Rauda, V., and **Morrison, W. H.** Quantitative TLC of neutral lipids by semi-specific colorimetric and titrimetric techniques, 1025.
Parker, G. A., and **Boltz, D. F.** Ultra-violet spectrophotometric determination of tungsten as peroxotungstic acid, 3430.
Parker, R. D., and **Vlismas, T.** Thermometric determination of Grignard reagent concentration, 1464.
Parkhomenko, G. V., and **Teploukhova, G. A.** Absorptiometric determination of trace concentrations of chlorine in air, 1199.
Parlog, C. See **Popea, F.,** 781.
Parmentier, J. See **Bontemps, R.,** 1131.
Parodi, P. W., and **Dunstan, R. J.** Contamination of unsaponifiable fraction of butter fat with phthalic acid esters, 537.
Parpiev, N. A. See **Abramova, E. L.,** 3440.
Parrish, J. R. Chromatography of food dyes on Sephadex, 521.
Parry, D. W. See **Harris (Holdings) Ltd., Philip** 3230.
Parry, E. P., and **Oldham, K. B.** Electrochemistr of palladium^{II} ions in ammonia and pyridin media: pulse-polarographic determination c palladium, 2132.
Parsons & Co. Ltd., Sir Howard Grubb. Determination of alcohol in breath, 3632.
Parups, E. V., and **Jones, J. D.** TLC and u.v. an fluorescence spectra of fluorene-9-carboxylic aci derivatives, 3848.
Pascalau, M. Servo-amplifier for the recording c ion-current ratio in a two-collector mass spectrometer, 4013.
Pasciak, J. Polarographic determination of sodiu dimethyldithiocarbamate in butadiene - styren latex, 974.
Pascual Calveras, J. O. See **Danes, E. J.,** 2159.
Pasculescu, M. See **Manoliu, C.,** 3351.
Paskalev, N., Mihailova, D., and **Trendafelov, I** Separation of cations, *e.g.*, gallium and indiu with close pH of precipitation as hydroxides, 8
Pasovskaya, G. B., and **Prigarina, L. P.** Possib errors during the determination of diodone, 171
Pasternak, A. Measurement of small volumes liquid by pipette: statistical examination, 3138.
Pasupathy, C. V., and **Wijesekera, R. O. B.** Exam nation of sugars in cocoa powder by two-dime sional TLC, 1757.
Pasztler, E. See **Inczedy, J.,** 1260.
Patek, P. Volatility of antimony in chlorid sulphate media, 129.
Patel, A. B. See **Brown, H. D.,** 1560.
Patel, A. N. See **Anwar, M.,** 1481, and **Hanson,** 273.
Patel, C. C. See **Ravindranath, K.,** 1460, 2802, a **Savant, V. V.,** 2803.
Patel, M. A. Comparative study of chemical a biological methods of determination of n adrenaline in injections, 3768.
Pathy, M. S. V. See **Chidambaram, S.,** 3545.
Patrovsky, V. Application of Victoria violet indicator for the complexometric determinati of magnesium and as reagent for the spectr photometric determination of magnesium, 20
Pats, R. G., and **Semochkina, T. V.** Determinati of selenium^{VI} in acid medium by a.c. polarograp with dropping- and stationary-mercury electrod 828.
— **Vasil'eva, L. N.,** and **Semochkina, T. V.** A polarographic determination of tellurium purified selenium, 2083.
— See also **Vasil'eva, L. N.,** 30, 754, 816.
Patterson, J. M. See **Smith, W. T., jun.,** 677.
Patterson, S. J., Scott, C. C., and **Tucker, K. B.** Non-ionic detergent degradation. II. TLC a foaming properties of alkylphenol polyethoxylat 3572.
Patwardhan, A. B. See **Dhumwad, R. K.,** 3376.
Paul, A., and **Janardhan, P. B.** Separation copper and iron valencies by circular pa chromatography, 1985.
Paul, J. L. See **Carlson, R. M.,** 2009.
Paulicka, F. R. See **Hoerr, C. W.,** 1.
Paulik, F., Paulik, J., and **Erdey, L.** Combi thermo-dilatometric and derivatographic exa nation of hydrargillite and barium chlor dihydrate, 762.
— See also **Rokosz, A.,** 2532.
Paulik, F. E. See **Tinker, H. B.,** 1225.
Paulik, J. See **Paulik, F.,** 762, and **Rokosz, A.,** 2
Pauling, L. E. See **Hahn, L. H.,** 2099.
Paulson, E. J. See **Szivek, J.,** 2498.
Paulson, R. A. See **Freeman, D. H.,** 1345.

auly, J. See **Girardi, F.,** 1.
auschmann, H. See **Bayer, E.,** 1313.
auwels, M., Gijbels, R., and **Hoste, J.** Separation of fission products by electrophoretic focusing of ions. II, 3374.
avel, E. See **Bauer, M.,** 1108.
avelek, J. J. See **Theimer, E. E.,** 1658.
avlenko, L. I. See **Karyakin, A. V.,** 1270.
avlinskii, G. V. See **Losev, N. F.,** 3977.
avlova, G. D. See **Ivanovskii, M. N.,** 45.
avlova, V. N., and **Murashova, V. I.** Paper-chromatographic determination of selenium and tellurium in industrial objects containing platinum metals and gold, 829.
avlyuchenko, M. M. See **Dubovik, K. V.,** 3290, **Filonov, B. O.,** 3293, **Proleskovskii, Yu. A.,** 3984, and **Ul'yanova, T. M.,** 44.
awelczyk, E., Domeracki, S., and **Balundo, T.** Analysis of decomposition products of drugs. XX. Paper-chromatographic analysis of decomposition products of acetarsol, 3780.
— and **Hermann, T.** Chemical properties of products of drug decomposition. I. Polarographic examination of papaverine hydrochloride decomposition products, 2975.
Pawlak, J. See **Burek, R.,** 2767.
Pawlowska-Marzec, A. TLC of aromatic hydrocarbons, 2213.
Paylor, R. A. L., Feinland, R., and **Conroy, N. H.** GLC analysis of tall-oil fatty alkyds for monomer and dimer acid content, 2254.
Payne, K. W. See **Carr-Brion, K. G.,** 636, 2718.
Peach, M. E. See **Birney, D. G.,** 2559.
Peacock, M. See **Robertson, W. G.,** 1541.
Peacock, P. R. Detection of asbestos in asbestos bodies: application to biological material, 1545.
Pearce, R. H., Mathieson, J. M., and **Grimmer, B. J.** Fractionation of anionic mucopolysaccharides by ion-exchange chromatography, 3646.
Pearcy, L. Z., Rowland, S. P., Mack, C. H., and **Coll, E. E.** GLC measurement of the kinetics of the trans-esterification of diethyl malonate, 260.
Pearson, B. See **Hudson, H. E.,** 1792.
Pearson, D. Tentative specification for the acceptability of minced beef based on chemical values, 3019. Assessment of meat freshness in quality control by chemical techniques: review, 3797. Application of chemical methods for assessment of beef quality. I. General considerations, sampling and determination of basic components, 3798; II. Methods related to protein breakdown, 3798.
Pearson, E. A. See **Scherfig, J.,** 3887.
Pease, H. L., and **Kirkland, J. J.** Determination of methomyl residues using micro-coulometric GLC, 3856.
Peaslee, D. E. See **Frink, C. R.,** 2865.
Pechere, J.-F., and **Capony, J.-P.** Colorimetric determination of acyl phosphates, 399.
Pechkovskii, V. V., Shchegrov, L. N., and **Shul'man, A. S.** Analysis of poorly-soluble magnesium and calcium polyphosphates, 1360.
Pedersen, A. O. Spectrophotometric analysis of individual morphine suppositories, 1112.
Peelle, R. W. See **Love, T. A.,** 671.
Peisach, M., Pretorius, R., and **Strebel, P. J.** Isotopic determination of oxygen-18 in gases by neutron time-of-flight spectrometry, 1403.
— See also **Naude, W. J.,** 1336.
Pekarek, V., and **Maryska, S.** Sorption properties of Amberlite IR-120 and amorphous zirconium^{IV} phosphate used for separation of uranium from mixtures with other elements, 2036.
Pelick, N. See **Supina, W. R.,** 3952.
Pellerin, F., and **Chasset, R.** Identification and determination of phenolic compounds by u.v. absorption spectrophotometry: role of pH, and analytical applications, 2976.
Pelletier, O. Chemical determination of nicotinamide in multivitamin preparations, 2984.
Pelletier, Y. J. A. See **Blackburn, W. H.,** 2764.
Pen, R. Z., and **Shapiro, I. L.** Spectrophotometric determination of traces of resorcinol and some of its nitro- and chloro-derivatives, 2808.
Pena, J. V. See **Burnett, H. M.,** 1382.
Penders, T. J. See **Tommel, D. K. J.,** 1067.
Pendry, A. Automated GLC - i.r. analysis, 2470.
Penna, N. See **Ciusa, W.,** 1173.
Pennington, S. N. Determination of oxidising agents by gas-chromatographic iodimetry, 3437.
Peppers, N. A., Scribner, E. J., Alterton, L. E., Honey, R. C., Beatrice, E. S., Harding-Barlow, I., Rosan, R. C., and **Glick, D.** Q-Switched ruby laser for emission micro-spectroscopic elementary analysis, 3192.
Perel'shtein, E. I., and **Kaplin, V. T.** Simultaneous determination of carbon and the oxidisability of organic compounds in natural water, 568.
Perelygin, V. P. See **Abdullaev, Kh.,** 1383.
Peresleni, E. M. See **Merlis, V. M.,** 2353.
Perez, C. C. See **Capdevila Perez, C.**
Pergola, F. See **Raspi, G.,** 1413.
Perisho, C. R. Two-parameter equation relating R_F values in different solvent systems, 596.
Perkampus, H.-H., and **Rother, W.** Infra-red spectrophotometric investigation of the pressure-broadening effect on carbon dioxide bands by the addition of nitrogen, 1903.
Perkavac, J. See **Logar, S.,** 3581.
Perkin-Elmer Ltd. Detector for monitoring effluent from a liquid-chromatographic column, 1847.
Perkins, A. J. See **Grove, E. L.,** *Books*: Oct., Nov.
Perkins, E. G. See **Argoudelis, C. J.,** 3818.
Perkins, M., and **Rees, T. B.** Determination of traces of copper, arsenic and antimony in steel and 'steel oxides' by neutron activation, 176.
Perkins, R. W., Haller, W. A., and **Thorpe, J. D.** Trace-element analysis of human lung tissue by neutron activation and instrumental analysis, 1.
Perl, H., and **Voggel, K.** Evaluation of cellulose acetate membranes for electrophoretic separations, 1313.
Perl (nee **Molnar**), **I.,** and **Maros, L.** Analysis of 1,2-diols and polyhydric compounds. IX. Determination of β-D-methylarabinopyranoside, β-D-benzylarabinopyranoside and α-D-methylglucopyranoside through the aldehyde formed by oxidation with periodate, 897; X. Determination of trehalose, sucrose and raffinose through the aldehyde formed by oxidation with periodate, 897.
Perlotto, T. See **Bortoletti, B.,** 3773.
Peron, J.-P. See **Blandenet, G.,** 3254.
Perone, S. P., Harrar, J. E., Stephens, F. B., and **Anderson, R. E.** Analytical applications of an on-line digital computer in fast-sweep derivative polarography, 1924.
Perpar, M. See **Logar, S.,** 3581.
Perrin, C. H., and **Ferguson, P. A.** Comparison of flame and burner combinations in atomic-absorption spectrophotometry of animal feeds, 1787.
Perrine, T. D. See **Landis, W. R.,** 2208.
Perriton, R. C., and **Coe, F. R.** Automated determination of hydrogen in metals by using encapsulated hydrogen standards, 3909.
Perrizo, C. See **Anderson, R. A.,** 2983.
Perry, J. D. See **Smith, I.,** 449.
Perry, S. See **Judson, G.,** 590.

Persiani, C., and **Cosgrove, J. F.** Determination of stoicheiometry of vanadium and titanium oxides by 14-MeV neutron activation, 2073. Determination of trace amounts of nickel, manganese, cobalt and iron in zinc sulphide phosphor by neutron activation, 2613.

Persmark, U. Metal analysis in oils and fats by atomic absorption, 2535.

— See also **Ohlson, R.**, 3083.

Perten, H. Collaborative studies of methods for determining α-amylase activity in cereal grains and flour, 2400.

Pertoldi Marletta, G. See **Calzolari, C.**, 1500.

Peshev, P., **Leyarovska, L.**, and **Bliznakov, G.** Analysis of tantalum and niobium borides, 822.

Peshkova, V. M., **Gromova, M. I.**, and **Romantseva, T. I.** Complex formation in the system neodymium - 5,7-dibromo-8-hydroxyquinoline - chloroform (or amyl acetate) - water, 2026.

— See also **Ozerova, G. P.**, 2074.

Petakova, M. See **Rybak, M.**, 446.

Petek, F., and **Eberhard, R.** TLC identification of urinary sugars, 3640.

Peters, A. Determination of iron^{II} oxide in minerals and rocks without exclusion of air, 858.

Peters, D. K. See **Chamberlain, M. J.**, 2269, 2271.

Peters, H. J. See **Kerkhoff, J. F.**, 2951.

Peters, J. H., **Berridge, B. J., jun.**, **Cummings, J. G.**, and **Lin, S. C.** Column-chromatographic analysis of neutral and acidic amino-acids with lithium citrate buffer solutions, 2321.

Peters, T. See **Giovanniello, T. J.**, 2278.

Petersen, J. C. See **Helm, R. V.**, 2218.

Petersen, J. D. See **Wacker, P. F.**, *Book*: Nov.

Peterson, G. E. See **Kahn, H. L.**, 1274.

Peterson, H. P. See **Willett, D. N.**, 1786.

Peterson, J. I. Urinary glucose measurement, 2900.

— and **Young, D. S.** Evaluation of hexokinase - glucose-6-phosphate dehydrogenase method of determining glucose in urine, 1562.

Petrie, D. R. See **Campbell, A. D.**, 2772.

Petrikova, M. N. See **Alimarin, I. P.**, 2517, and **Frid, B. I.**, 3.

Petrinovic, M. See **Boltezar, E.**, 649.

Petro, M. See **Spanyar, P.**, 2989, 3023.

Petrova, L. N. See **Skvortsova, A. B.**, 247.

Petrova, L. P. See **Gal'pern, G. M.**, 961.

Petrovic, S. E., **Belia, B. E.**, and **Vukajlovic, D. B.** TLC separation of water-soluble vitamins on starch layers, 1645.

Petru, F., and **Krsek, J.** Raman spectrometer with a helium - neon laser, 3197.

— See also **Jursik, F.**, 1058.

Petsev, N., and **Dimitrov, Kh.** Evaporation of the stationary phase (esters of phthalic acid and some of their isomers) from GLC columns, 1866.

Pettersson, E. See **Jonsson, M.**, 1071.

Pettinati, J. D. See **Mozersky, S. M.**, 1083.

Peurifoy, P. V., **Woods, L. A.**, and **Martin, G. A.** Detector tube for determination of aromatics in petrol, 1486.

— See also **Shell Internationale Research Maatschappij N.V.**, 950.

Pevtsov, G. A., and **Manova, T. G.** Use of mixture of cadmium sulphide and carbon powder as collector in spectrochemical determination of trace impurities in salts of alkali and alkaline-earth metals, 1963.

Pevzner, I. D. See **Bykova, L. N.**, 683.

Pevzner, K. S., and **Cherkashina, T. V.** Complexometric determination of gallium in niobium-based alloys, 3416.

Peychal-Heiling, G. See **Gutmann, V.**, 21, 1357.

Pfandl, A. TLC determination of composition o pharmaceutical preparations containing analgesics and antipyretics, 1687.

Pfeifer, K. See **VEB Carl Zeiss Jena**, 3196.

Pfeilsticker, K. Gas chromatography of L-ascorbic acid and dehydroascorbic acid after silylation 1094.

— See also **Diemair, W.**, 334.

Pflaum, R. T. See **Berge, D. G.**, 2987.

Pfleiderer, G., **Stock, A.**, **Oetting, F.**, and **Diemair, W** Photometric determination of sulphite with 2,6-dichlorophenolindophenol, 3616.

Pham Hoang Phi. See **Belyaev, Yu. I.**, 3281.

Phelps, R. T. See **Burnett, H. M.**, 1382.

Phi, P. H. See **Pham Hoang Phi.**

Philibert, J., and **Tixier, R.** Electron penetration and the atomic-number correction in electron-probe micro-analysis, 2490.

Philip, H. See **Chamberlain, M. J.**, 2269, 2271.

Philip Harris (Holdings) Ltd. See **Harris (Holdings) Ltd., Philip.**

Philips Electronic and Associated Industries Ltd Multiple-reflection cells for internal-reflection spectroscopy, 1290. Variable-angle attachment for infra-red reflection spectroscopy, 1291.

Phillips, A. R. See **Sanders, B. J.**, 573.

Phillips, C. See **Forman, D. T.**, 1596.

Phillips, F. See **Viswanathan, C. V.**, 1586.

Phillips, G. B., **Dodge, J. T.**, and **Rockmore, C. S** Analysis of fatty acids of human red cells without lipid extraction, 380.

Phillips, J. P., **Lyle, R. E.**, and **Jones, P. R.** Organic electronic spectral data, Vol. V, *Book*: Oct.

Phillips, R. E., and **Elevitch, F. R.** Enzymic fluorimetric determination of glucose in plasma, 1563

Photoelectric Spectrometry Group, England. U.v atlas of organic compounds, Vol. V, *Book*: Oct.

Piacentini, R. See **Ligotti, I.**, 2257.

Piasecka, H. See **Wisniewski, W.**, 460.

Piccolo, B., and **O'Connor, R. T.** Use of atomic-absorption spectrophotometry in determining trace elements in oils and fats, 2.

Pichugina, V. M. See **Baletskaya, L. G.**, 59, 733.

Pickford, C. J. See **Fleet, B.**, 2817.

Picon, M. See **Tousset, J.**, 741.

Piechocka, J. Determination of microgram amounts of mercury in organic material, 1719. Detection of thiram residues on tomatoes, apples and strawberries, 1750.

Piel, E. V. Chromatographic process, 3151.

Pierschel, G. See **VEB Labortechnik Ilmenau**, 3899.

Pierzchalski, T., and **Mrozowska, A.** Polarographic identification and determination of glycosidal alkaloids. I, 1114.

Pietrulla, W. Determination of low concentrations of ethanediol dinitrate and nitroglycerin in air, 1200.

Pietrzyk, D. J. [Analytical reviews, 1968]— Organic polarography, 677.

Pifferi, P. G., and **Zamorani, A.** Determination of phosphorus and some metals in vegetable oils, 1778.

Piksarv, A. Yu., and **Khedreyarv, Kh. Kh.** Amperometric determination of chlorides in cadmium sulphide, 3341.

Pileggi, V. J., and **Kessler, G.** Determination of organic iodine compounds in serum. IV. Non-incineration technique for serum thyroxine, 1610.

— See also **Backer, E. T.**, 3703.

Pilipenko, A. T., **Maslei, N. N.**, and **Karetnikova, E. A.** Platinum and palladium dithio-oxalate complexes and their use in analysis, 2136.

Pilipenko, A. T., Maslei, N. N., and **Skorokhod, E. G.** Extraction - photometric determination of nickel as ternary complex with diantipyrinylmethane and dithio-oxalate, 2123.

— and **Nguyen Dyk Tu.** Application of Meldola blue in analysis. [I]. Study of interaction with anions, 3262.

— and **Nguyen Mong Shinh.** Reaction of safranine T with anions, including anionic complexes of metals, 714.

— and **Ol'khovich, P. F.** Complex formation in the system diantipyrinylmethane - platinum metal - iodide: gravimetric determination of platinum and extractive separation of platinum and palladium from rhodium and iridium, 200. Extraction - photometric determination of rhodium, 872.

— See also **Babko, A. K.,** 3.

Piliu, G. See **Farina, E.,** 367.

Pillinger, W. L., and **Stone, J. A.** Methodology of the neptunium-237 Mossbauer effect, 1311.

Pilloni, G. See **Magno, F.,** 3249.

Pilz, W. Special analytical methods for biochemistry and physiological chemistry. VIII. Preparative starch-paste electrophoresis, 1313.

Pimkin, V. G., Bass, G. I., and **Dobychin, S. L.** GLC analysis of alkyl nitrate mixtures, 2801.

Pinchbeck, F. M. See **Bruce, R. B.,** 2285.

Pinero, R. B. See **Barrera Pinero, R.**

Pinfold, T. A. See **Mahne, E. J.,** 2134.

Pink, F. X., and **Lyn, V.** Non-destructive determination of phosphorus in phospho-silica films on silicon substrates, 3383.

Pinkasova, M. See **Blazek, J.,** 1693.

Pinol, L. M. See **Garber, C.,** 3000.

Pinter, M. See **Szakacs (nee Pinter), M.**

Pinto, N. See **Fischl, J.,** 1557.

Pionke, H. B., Konrad, J. G., Chesters, G., and **Armstrong, D. E.** Extraction of organochlorine and organophosphate insecticides from lake-water, 2442.

Piorr, W. The 'head-space bulb': a device for concentrating volatile substances for gas chromatography, 603.

— **Toth, L.,** and **Novahovic, N.** GLC and quantitative TLC investigation of fatty acid and tocopherol compositions of vegetable oils, 3824.

Piretti, M. See **Strocchi, A.,** 3659.

Pirlea, M. See **Dragulescu, C.,** 2106.

Pirogova, T. A. See **Novikov, A. I.,** 85.

Pirozhkov, S. D. See **Eidus, Ya. T.,** 256.

Piscati, V. See **Balica, G.,** 3515.

Pitot, H. C., Wratten, N., and **Poirier, M.** Automated assay of complete enzyme reaction rates. II. Digital read-out and data processing of linear rates, 443.

Pitts, J. E. See **Bruce, R. B.,** 2285.

Pitz, W., and **Eben, A.** Simultaneous determination of two acetylcholinesterases in blood at two different pH values, 2345.

Piwowarska, B. See **Gregorowicz, Z.,** 2211, 3609.

Placek, K. See **Franc, J.,** 3488.

Plesek, J. See **Hermanek, S.,** 2212.

Pleshivtsev, A. D. See **Ivanovskii, M. N.,** 45.

Plessis, C. S. du. Micro 'cold-finger' trap for collecting fractions separated by GLC, 1217.

Plock, C. E., and **Vasquez, J.** Determination of uranium in plutonium by differential linear-sweep oscillographic polarography, 2660.

Ploechl, E. TLC separation of blood amino-acids, 3696.

Plotnikov, V. I., and **Kochetkov, V. L.** Co-precipitation of small amounts of molybdenum, chromium and rhenium with metal hydroxides, 2564.

Plourde, J. R., Braun, J., and **Fernandes, L.** Colorimetric determination of mephenesin in pharmaceutical preparations, 3762.

Pluhar, E. See **Kucera, Z.,** 1850.

Pluzanski, M. Device for fluorescence and absorption measurements in rigid-glass and polycrystalline samples at low temperatures, 653.

Plyushchev, V. E. See **Serebrennikova, G. M.,** 2584.

Plyusnin, V. G., Filatova, A. S., and **Titova, Z. M.** Determination of small amounts of fluorine, other halogens and sulphur in organic compounds, 2146.

Podchainova, V. N., Skornyakova, L. V., and **Dvinyaninov, B. L.** Acetylsalicylic acid as reagent for fluorimetric determination of traces of boron, 70.

Podczaska, Z., and **Dudzik, Z.** Determination of sodium benzoate, potassium guaiacolsulphonate, aminophylline, ephedrine hydrochloride and codeine phosphate in compound powders, 496.

Podgornova, V. S. See **Talipov, Sh. T.,** 3365.

Podlaha, O. See **Ohlson, R.,** 3083.

Poe, R. D. See **Barrett, J.,** 2354, and **Molina, J.,** 2999.

Poethke, W., and **Jackel, C.** Standard substances for complexometry, 2543.

— and **Koehne, H.** Analytical use of halo-2,4-dinitrobenzenes. III. Identification and determination of phenolic antiseptics, 2381.

Pogodaeva, V. G. See **Stolyarov, K. P.,** 797.

Pogosov, Yu. L. See **Eliseeva, L. M.,** 2835.

Pohle, W. D., and **Gregory, R. L.** Application of wide-line NMR to analysis of cereal products, 2.

Pohloudek-Fabini, R. See **Palitzsch, R.,** 2358.

Poirier, L.-M. Determination of actual total isotonic equivalence of milk: application to the calculation of the adulteration of milk by water, 1732.

Poirier, M. See **Pitot, H. C.,** 443.

Pokorny, B. Determination of hydroperoxides in non-oxidised atactic polypropene, 2837.

Pokorny, G. Quantitative TLC. VI. Spectrophotometric determination of iron with morpholinium 3-oxapentamethylenedithiocarbamate: separation of iron^{II} and iron^{III}, 171.

— and **Beyer, W.** Quantitative TLC. VII. Spectrophotometric determination of iron with morpholinium 3-oxapentamethylenedithiocarbamate after separation of metals in the 'ammonium sulphide analytical group', 1416.

— and **Likussar, W.** Use of oxazines in analysis. I. Determination of nitrate with Nile blue A, 3399.

Pokrovskaya, E. I., Novikova, N. N., and **Tereshchenko, A. P.** Determination of magnesium and calcium in urine after ion-exchange chromatography, 985.

— **Semenova, T. D.,** and **Tereshchenko, A. N.** Spectrophotometric determination of creatinine in urine, 1047.

Pol, E. W. van der. Determination of carbaryl in residues in hen skin, 2896.

Poller, S. Determination of nitrolignin in wood cellulose nitrate solutions, 1506.

Pollock, E. N., and **Andersen, S. I.** Determination of gold by atomic-absorption spectrophotometry, 2599.

Pollock, G. E., and **Jermany, D. A.** Resolution of racemic carbohydrate diastereomers by gas chromatography, 3506.

— and **Kawauchi, A. H.** Resolution of racemic aspartic acid, tryptophan and hydroxy- or mercapto-group-containing amino-acids by gas chromatography, 2328.

Polonio, J. B. See **Bermudez Polonio, J.**

Polotebnova, N. A., and **Derkach, L. V.** Absorptiometric determination of tellurium in semiconductor alloys, 147.
— and **Furtune, L. A.** Amperometric determination of basic dyes with molybdovanadophosphoric acid, 2833.
Poluektov, N. S., and **Gava, S. A.** Luminescence spectra of yttrium orthovanadate, activated by lanthanide ions, in the region 0·7 to 1·1 μm, and their use in the analysis of yttrium oxide, 3361.
Polyakova, A. M. See **Val'kovskii, D. G.**, 1493.
Polyakova, T. A. See **Mokeeva, R. N.**, 2820.
Polyakova, V. M. See **Barabanov, N. N.**, 1505.
Polyakova, V. V. See **Bogoyavlenskaya, A. N.**, 830.
Polzella, L. Spectrophotometric determination of caffeine in tea, 3064.
Pomeranz, Y. See **Lin, F. M.**, 3505.
Pomfret, D. See **Braverman, L. E.**, 1594.
Poncha, R. P. See **Karger, B. L.**, 853.
Ponchon, G., and **Fellers, F. X.** TLC of vitamin D and related sterols, 1646.
Ponomarev, Yu. P. See **Bezuglyi, V. D.**, 3591.
Pons, W. A., jun. Fluorodensitometric measurements of aflatoxins on TLC plates, 3113.
— See also **McMeans, J. L.**, 3654.
Ponte, J. G., jun. See **De Stefanis, V. A.**, 503.
Pontis, H. G. Separation of fructosans by gel filtration, 1566.
Poole, C. E. See **Leech, R. M.**, 1643.
Pop, G. See **Nanu, I.**, 965.
Popa, G., and **Costache, D.** Kinetic determination of cobalt, 2120.
— and **Nascutiu, T.** Paper chromatography of inorganic substances. VII. Efficiency of benzyl alcohol solvents, 693.
— **Nascutiu, T.**, and **Iliescu, V.** Paper chromatography of inorganic substances. VIII. Use of hydrofluoric acid - hydrochloric acid solvents, 693.
Pope, A. L. See **Ewan, R. C.**, 994.
Popea, F., and **Mavrodin, M.** Spectrophotometric study of the uranyl ion - dihydroxymaleic acid system in organic solvents: determination of uranium^{VI} in the presence of thorium and rare-earth metals, 2033.
— and **Parlog, C.** Spectrophotometric study of the reactions of the uranyl ion with derivatives of pyrimidine, 781.
Popescu, I. See **Liteanu, C.**, 2522.
Popham, R. E., and **Schrenk, W. G.** De-mountable hollow-cathode lamp for atomic-absorption spectrophotometry, 2502.
Poplevina, L. V. See **Gusev, S. I.**, 3410.
Popov, A., **Chobanov, D.**, and **Stefanov, K.** Detection of unsaponifiable and unsaponified matter in soap, 953.
Popov, A. I., and **Zagorets, P. A.** Difference titration of aliphatic monosulphonic acids and sulphuric acid in non-aqueous medium, 913.
Popov, N. P. See **Belopol'skii, M. P.**, 1379.
Popova, O. I., and **Kabannik, G. T.** Analysis of the molybdenum - germanium system, 2713.
Popowski, E. See **Schott, G.**, 289, 3548.
Popper, E., **Florean, E.**, and **Marcu, P.** Paper-chromatographic separation of copper^{II}, mercury^{II}, cobalt^{II}, nickel and zinc, with identification by use of 5-anilino-1,3,4-thiadiazole-2-thiol, 3289.
— See also **Roman, L.**, 1427.
Porcaro, P. J., and **Shubiak, P.** Detection of sub-nanogram quantities of hexachlorophane by electron-capture GLC, 2382.
Portheine, H. See **Henke, G.**, 1543.
Portier, J., and **Roux, J.** Determination of fluorine in the fluorides and oxyfluorides of transition elements, 2719.
Portnyagin, V. I. See **Moskvin, L. N.**, 2642.
Posner, I. Modified ceric oxidation method for determining butanol-extractable iodine using an extraction filter, 2331.
Post, A. A. See **Hermann, T. S.**, 3874.
Post, H. R. See **Glade, G. H.**, 800.
Post, M. A. Determination of bound styrene in insoluble emulsion-polymerised styrene - butadiene copolymers, 2242.
Potapova, T. I., **Spryskov, A. A.**, and **Kukushkin, E. P.** Analysis of mixed sulphonic acids obtained by sulphonation of bromobenzene, 2814.
Potgieter, E. See **Gilchrist, F. M. C.**, 451.
Potter, A. L., **Ducay, E. D.**, and **McCready, R. M.** Determination of sugar in plant materials: measurement of unreduced copper by atomic-absorption spectrophotometry, 3046.
Potts, D. See **Franklin, R. C.**, 41.
Poulet, M. See **Boulet, R.**, 936.
Poulson, R. E., and **Jensen, H. B.** Vapour-pressure detector for liquid-elution chromatography: potential use in shale-oil characterisation, 3152.
Pound, J. L. See **Coutts, R. T.**, 1485.
Powell, J. E., and **Burkholder, H. R.** Means of augmenting the separation of adjacent pairs of rare-earth metals in elutions with *N*-(2-hydroxyethyl)ethylenediamine-*NN'N'*-triacetic acid, 3363.
— See also **James, D. B.**, 2023.
Powell, P. See **Water Research Association**, 3143.
Powell, P. E., and **Kumar, M. A.** Determination of gastric histidine decarboxylase, 454.
Powell, S. J. See **Coutts, R. T.**, 1485.
Powell, S. L. See **Ellis, Rex**, 3822.
Poy, F., and **Grazioli, G.** Use of gas chromatography in the paint industry, 335.
Pozdnyakova, A. A. See **Vasil'eva, L. N.**, 30.
Pozdnyakova, N. A. See **Rudnevskii, N. K.**, 2115.
Pozina, L. S. See **Subbotina, A. I.**, 1366.
Poziomek, E. J. See **Mosher, W. A.**, 1432.
Pozzi, G. See **Merlini, M.**, 615.
Pradhan, T. K. Colorimetric determination of menaphthone in pharmaceutical preparations, 3753.
Pradzynski, A., **Sulin, W. W.**, and **Witozenc, H. C.** Determination of copper and silver in copper ores by photon activation, 2590.
Prakash, O., and **Mushran, S. P.** Spectrophotometric determination of bismuth with oxidised haematoxylin, 2070.
Prasad, N. K. Simultaneous determination of phosphorus and total sulphur in coal, 882.
Prasad, S., and **Singh, N. P.** Conductimetric determination of lanthanum as metaborate, 2024.
Prati, F. See **Kaderavek, G.**, 515.
Pratt, A. W. See **Toal, J. N.**, 1085.
Pratt, E. L., and **Auerbach, M. E.** Spectrophotometric determination of raceophenidol in feeding-stuffs at very low levels, 3112.
Pratt, J. M. See **Firth, R. A.**, 2343.
Preciado, A. C. See **Chavez Preciado, A.**
Preisler, L. Determination of small amounts of impurities formed by cross-linking in octamethylcyclotetrasiloxane by GLC, 2250.
Premi, P. R., and **Cornfield, A. H.** Determination of individual contents of total copper, zinc, iron, manganese and chromium in plant materials and organic residues by extraction with hydrochloric acid followed by atomic-absorption spectrophotometry, 2266.
Premru, L. See **Dolinar, J.**, 343, and **Jernejcic, M.**, 342.
Preobrazhenskii, N. A. See **Trubnikov, V. I.**, 279, 295, 932.

retorius, R. See **Naude, W. J.**, 1336, and **Peisach, M.**, 1403.

retorius, V., and **Hahn, H. H.** Detection by electrical means in liquid chromatography, 1237. Use of mobile phases with high velocity in column chromatography, 1848. Apparatus for, and use of, chromatographic stationary phases in the semi-fluidised state, 1867.

reuss, L. E., Toothacker, W. S., and **Bugenis, C. K.** Investigation and demonstration of single-crystal and powder diffraction by using zero-power beta-excited X-ray and iron-55 isotopic sources, 1310.

reussmann, R., Hengy, H., and **Hodenberg, A. von.** Spectrophotometric determination of 1,1-dialkylhydrazines, 2799.

— **Hengy, H., Lubbe, D.**, and **Hodenberg, A. von.** Spectrophotometric determination of aliphatic azo-compounds and 1,2-disubstituted hydrazines, 2798.

revot, A., and **Barbati, C.** Analysis of hydroxy-compounds by gas chromatography, 236.

— and **Ramard, A.** Capillary-column chromatography of methyl esters of fatty acids of butter, 1159.

revot, F. See **Brus, G.**, 3662.

ribil, R., jun. See **Dagnall, R. M.**, 1896.

ribyl, M. See **Groagova, A.**, 224.

rice, D. Time-of-flight mass spectrometry: review, 3226.

Price, G. M. Apparatus for electrophoresis of proteins on polyacrylamide gel, 1617.

Price, J. G. W., Fenimore, D. C., Simmonds, P. G., and **Zlatkis, A.** Design and operation of a photoionisation detector for gas chromatography, 616.

Price, N. B., and **Angell, G. R.** Determination of minor elements in rocks by thin-film X-ray fluorescence techniques, 201.

Pricop, D.-C. See **Crisan, I. A.**, 2717.

Prigarina, L. P. See **Pasovskaya, G. B.**, 1711.

Pringle, D. H., and **Barnaby, D. F.** Performance of a high-sensitivity liquid-scintillation whole-body counter, 2529.

Pristoupil, T. I., Fricova, V., Kramlova, M., Travnicek, M., Sterbikova, J., and **Novotna, Z.** Behaviour of nucleic acids in membrane chromatography and electrophoresis on cellulose nitrate filters, 3722.

— and **Kramlova, M.** Membrane chromatography of dyes on cellulose nitrate membrane filters, 318.

— **Kramlova, M.**, and **Sterbikova, J.** Determination of serum and body-fluid proteins by membrane chromatography on cellulose nitrate filters, 1615.

Privat de Garilhe, M. See **Lando, D.**, 1086.

Privett, O. S. See **Nutter, L. J.**, 3666.

Pro, M. J. See **Hoffman, C. M.**, 1774.

Procaccio, P. See **Izzo, P.**, 1626.

Proctor, T. D. Laser technique for the measurement of surface area of aerosols, 2534.

Prokhorov, V. N. See **Lebedeva, M. I.**, 1337.

Prokhorova, L. I. See **Evstigneev, V. B.**, 1077.

Prokopenko, N. A., Maiorova, R. V., and **Dement'eva, M. I.** Analysis of mixtures of aliphatic diols containing from 4 to 10 carbon atoms with alcohols containing from 9 to 15 carbon atoms, 3502.

Prokopets, V. F. See **Bil'tyukova, E. P.**, 3381.

Prokop'ev, B. V., Kashik, T. V., and **Verkhoturova, R. I.** Potentiometric titration of carboxylic acids in non-aqueous media with an antimony indicator-electrode, 254.

Prokopov, T. S. Determination of traces of chloride and bromide ions by potentiometric titration, 161. Iodimetric micro-determination of phosphorus, sulphur or chlorine in organic compounds, 2782.

Prokopovich, A. V. See **Bashkovich, A. P.**, 3749.

Proksch, G. See **Leicknam, J. P.**, 121.

Proleskovskii, Yu. A., Akulovich, V. M., and **Pavlyuchenko, M. M.** Choice of spectroscopic buffer based on the phase diagram, 3984.

— See also **Filonov, B. O.**, 3293.

Pronin, V. A. See **Gil'bert, E. N.**, 2076, and **Nikolaev, A. V.**, 706.

Proskurowska, I., and **Jarzynska, M.** GLC determination of small amounts of acenaphthene in acenaphthylene, 2819.

Prosser, A. R., and **Sheppard, A. J.** GLC of nicotinic acid and nicotinamide, 2368.

— See also **Sheppard, A. J.**, 2991.

Protopopova, N. P. See **Malakhov, V. V.**, 3411.

Protsenko, L. D. See **Loos, I. M.**, 492.

Protsidim, P. S., and **Lavrovskii, K. P.** GLC analysis of polyphenyls and their hydrogenated derivatives, 1467.

Pruden, G., and **Bloomfield, C.** Determination of iron^{II} sulphide in soil in the presence of iron^{III} oxide, 3839.

Pruthi, T. D., and **Bhalerao, V. R.** Application of the Gerber test for estimation of fat in buffalo milk, 1155.

Pruvcheva, Kh. Investigations on the spectral solution analysis of silicates in iron ore, 3451.

— **Ninov, E.**, and **Ganev, P.** Spectrochemical analysis of iron ores by using briquettes, 3450.

Przeszlakowski, S., Soczewinski, E., and **Flieger, A.** Chromatography of metal ions on paper impregnated with trioctylamine salts by using solutions of acetic, formic and chloroacetic acids as mobile phase, 3274.

Przybylek-Piontek, W. See **Fecko, J.**, 483.

Przybylski, Z. Method for increasing the accuracy and precision of spectrophotometric analysis of multi-component systems, 2503. Method for choice of wavelengths in spectrophotometric analysis of multi-component systems that obey the laws of absorption, 3999.

— and **Kramarz, J.** Application of the method of least squares in spectrophotometric analysis of multi-component systems, 1279.

Ptushkina, M. N. See **Lebedeva, L. I.**, 2065.

Puckett, R. See **Barrett, J.**, 2354.

Puech, A., Kister, G., and **Chanal, J.** Application of thin-layer chromatography and spectrophotometry to the analysis of a mixture of amylocaine hydrochloride, naphazoline nitrate and methylene blue, 1715.

Puech, R. Determination of ketone bodies in biological fluids, 396.

Pueschel, R. The problem of 'precision' in chemical analysis, 2536.

Puetter, J. Applicability of enzymic reactions in the determination of pharmaceutical preparations in blood: determination of the ultra-short-acting anaesthetic propanidid in blood, 1313.

Pugsley, T. A., and **Johnson, G. E.** Determination of metaraminol and α-methyl-*m*-tyramine, 2938.

Puisieux, F. See **Cerdas, J.**, 1148.

Pulido, E. See **Lippi, U.**, 2946.

Pungor, E. Automated registration of concentration of solutions by use of membrane-electrodes and oscillography, 3229.

— See also **Havas, J.**, 3435, and **Henrion, G.**, 2574.

Puputti, E. See **Nykanen, L.**, 1773.

Purcell, J. M., and **Susi, H.** Proton magnetic resonance spectra of acetylenic fatty acids, 252.

Purdy, W. C. Application of coulometric titration to clinical and toxicological analysis, 1313.

— See also **Feldman, F. J.**, 2877, **Moody, J. R.**, 2580, and **Simon, R. K.**, 1564.

Puri, B. K. See **Rao, A. L. J.,** 23.
Purkayastha, U., and **Maity, H. P.** Radiometric micro-determination of palladium and iodide with use of iodine-131, 2133.
Pusztai, A. See **Jennings, A. C.,** 1614.
Putnin', I. Ya., and **Lepin', L. K.** Indirect polarographic determination of aluminium, 2622.
Putter, I. See **Markley, J. L.,** 1313.
Puymbroeck, S. van, Jacquemin, R., Colard, J., Kirchmann, R., and **Borght, O. van der.** Determination of stable strontium in biological samples by atomic-absorption spectrophotometry, flame photometry and activation analysis, 1.
Puyo, M., and **Thiel, R.** Preparation of oil specimens for determination of trace elements by atomic-absorption spectrophotometry or by spectrography, 304.
Puzitskii, K. V. See **Eidus, Ya. T.,** 256.
Pyatnitskii, I. V. Polarographic analysis of inorganic substances: review, 2545. Classical methods of analysis: review, 3.
Pyburn, C. M., and **Reynolds, G. F.** Studies of the separation of trace metals by the manganese dioxide 'collection' method. III. Behaviour of copper and zinc; behaviour of lead and tin and determination of lead and tin in copper-base alloys, 1992.
Pye Ltd. Flame ionisation detector, 1254.
Pye, W. G., & Co. Ltd. Liquid-injection device for gas chromatography, 1243.
Pyl, T., and **Wuntke, K.** Thin-layer and column-chromatographic separation of oligomers of the poly(ethylene terephthalate) type on aluminium oxide, 967.
Pypker, J. See **Stoffelsma, J.,** 528.
Pyzhova, Z. I. See **Karalova, Z. K.,** 2652.

Q

Quacchia, R. H. Separation of 1-benzoyl-2-ethylaziridine, 5-ethyl-2-phenyl-2-oxazoline and 4-ethyl-2-phenyl-2-oxazoline by GLC, 930.
Quaresimo, A. J. See **Bunnell, R. H.,** 3846.
Quarmby, C. Use of poly(vinylpyrrolidone) in TLC separation of flavonoids and related compounds, 1073.
Quick, Q. See **Layton, R. F.,** 2201, and **Willeboordse, F.,** 3603.
Quickfit & Quartz Ltd. and **Ruane, M. M.** Apparatus for dispensing nascent gases, 3893.
Quinn, E. J., Osterhoudt, H. W., Heckles, J. S., and **Ziegler, D. C.** Fractionation of phenol - formaldehyde reaction mixtures with gel-permeation chromatography, 332.
Qureshi, M., Husain, W., and **Israili, A. H.** Adsorption of cations from formic acid solutions on strong acid cation-exchange resin: separation of zirconium from thorium and from gallium, 3397.
— and **Israili, A. H.** Electrochromatographic separation of metal ions on tin^{IV} phosphate papers, 2548.
— and **Khan, F.** Separation of titanium^{IV}, arsenic^{III}, tungsten^{VI} and gold^{III} from numerous metal ions and of iron, aluminium and titanium by paper chromatography, 711.
— and **Mathur, K. N.** Quantitative separation of selenium from metal ions on tin^{IV} tungstate papers, 2706.
— **Rawat, P.,** and **Khan, F.** Study of interferences in the spectrophotometric determination of titanium with sulphosalicylic acid, 802. Quantitative separation of titanium from numerous metal ions and of iron, aluminium and titanium by paper chromatography, 804.

R

Raaen, H. P., and **Kraus, F. E.** Resolution of complex mixtures of nucleic acid bases, nucleosides and nucleotides by two-dimensional TLC on poly(ethyleneimine) - cellulose, 3723.
Raaphorst, J. G. van. See **Das, H. A.,** 1.
Rabbani, G. S. M., Rusek, M., and **Janak, J.** Use of different carrier gases for gas-chromatographic investigation of ethylvinylbenzene polymers used as column packings, 3165.
Raber, H. Analysis of purine derivatives. VIII. Conductimetric determination of purines, 461.
Rabinovich, S. I. See **Volkov, E. F.,** 3170.
Rack, E. P. See **Lambrecht, R. M.,** 3466.
Rader, B. R., and **Aranda, E. S.** Determination of some single- and multiple-component drugs by GLC, 1661.
Radhakrishnan, P. K. See **Rai, R. M.,** 2939.
Radice, M. See **Bazzi, B.,** 3854.
Radil, V. See **Jaros, J.,** 2677.
Radin, N. S., Hof, L., and **Seidl, C.** Study of lipid contamination of solvents or air by polypropene apparatus and vacuum pumps, 10.
Radley, J. A. See **Lyne, F. A.,** 242.
Radtke, R. See **Knezevic, C.,** 2535.
Rady, G. See **Gimesi, O.,** 1482.
Radzhabova, F. M. See **Bagbanly, I. L.,** 2072.
Rafferty, K. See **Zettner, A.,** 981.
Rafols Rovira, J. M. Determination of fluoride in fluoridised table salt, 1741.
Ragab, M. T. H. Determination of malathion in water and in fish by GLC, 3127.
— and **McCollum, J. P.** Colorimetric determination of simazine and related chloro-1,3,5-triazines, 1186.
Ragelis, E. F., Fisher, B. S., Klimeck, B. A., and **Johnson, C.** Isolation and determination of chlorohydrins in foods fumigated with ethylene oxide or with propylene oxide, 1752.
Rai, K. M. See **Rai, R. M.,** 2939.
Rai, R. M., Sabapathy, T., Rai, K. M., and **Radhakrishnan, P. K.** Quantitative determination of brain 4-aminobutyric acid by TLC, 2939.
Raikhbaum, Ya. D. See **Lontsikh, S. V.,** 2091.
Raines, R. C., and **Haskell, B. E.** Peptide stimulation of *Streptococcus faecium* test organism for pyridoxal and pyridoxamine, 2342.
Rains, T. C. See **Dean, J. A.,** *Book*: Nov.
Raley, C. F., and **Kaufman, J. W.** Separation of the chlorostyrenes, and of ethylbenzene and the xylenes, 2190.
Ramachar, D. See **Rao, S. D. T.,** 3080, 3081.
Ramachdran, S. See **Rao, P. V.,** 401.
Ramaiah, N. A., Tewari, G. D., Trivedi, S. R., and **Katiyar, S. S.** Spectrophotometric titration of bismuth with EDTA, 130.
Ramakrishna, R. S., and **Fernandopulle, M.** Preparation of 1,5-bis-(2-chlorophenyl)-3-mercaptoformazan and a study of its metal-chelating properties, 681.
Ramakrishna, T. V. See **West, P. W.,** 1406.
Raman, P. V. See **Shah, Rasiklal C.,** 1001.
Ramard, A. See **Prevot, A.,** 1159.
Rambuszek, T. See **Bzdega, J.,** 3566.
Ramirez-Munoz, J. Application of atomic-absorption spectrophotometry: review, 3994.
— and **Roth, M. E.** Atomic-absorption determination of platinum and palladium and of impurities in ferric chloride solution, 695. Metallurgical applications of atomic-absorption spectrophotometry. II. Determination of chromium, copper and manganese in steel and cast iron, 861.
Ramos, A. See **Caticha-Ellis, S.,** 1310.

Ramponi, G. See **Nassi, P.,** 453.

Ramsden, D. B. See **Earland, C.,** 3711.

Rand, M. C. See **Bjorklund, J. G.,** 1825.

Randle, K. See **Gordon, G. E.,** 1429.

Rangaswamy, R. See **Betteridge, D.,** 3326.

Rangnekar, A. V., and **Khopkar, S. M.** Use of 2-thenoyltrifluoroacetone as extractant and colorimetric reagent for ruthenium^{III}, 194. Extraction - photometric determination of osmium with 2-thenoyltrifluoroacetone, 198. Solvent extraction and direct spectrophotometric determination of gold^{III} with 2-thenoyltrifluoroacetone, 1997.

Ranky, W. O., and **Battaglini, G. T.** Determination of 1-olefin sulphonates, 1498.

Ranny, M. See **Kahovcova, J.,** 952.

Ranucci, S. R. See **Kelly, W. G.,** 1040.

Rao, A. L. J. Indirect mercurimetric determination of thallium via iodide precipitation, 83.

— and **Puri, B. K.** Indirect mercurimetric determination of copper, cadmium, cobalt, nickel, zinc and manganese via the pyridine - thiocyanate complexes, 23.

Rao, E. V., and **Narayanan, M. N.** Colorimetric determination of riboflavine, 1124.

Rao, G. R. See **Baggi, T. R.,** 1705.

Rao, K. V. See **Rao, V. P. R.,** 3427.

Rao, M. L. See **Knuppen, R.,** 1313.

Rao, P. V., Ramachandran, S., and **Cornwell, D. G.** TLC of phospholipids on alumina, 401.

Rao, S. D. T., Ramachar, D., and **Krishnamurthy, G.** Colour reaction for detection of sesame oil, 3080. Colour reactions for detection of red palm oil, 3081.

Rao, S. R. M. See **Viswanadham, C. R.,** 2673.

Rao, V. P. R., and **Rao, K. V.** Spectrophotometric determination of molybdenum^{VI} with 8-hydroxy-7-iodoquinoline-5-sulphonic acid, 3427.

Rapoport, A. See **Husdan, H.,** 412.

Rapoport, S. See **Guentherberg, H.,** 1613.

Rapp, W., and **Kahlke, W.** Lipoprotein electrophoresis in agarose gel, 428.

Rapson, W. H. See **Hong, C. C.,** 2096.

Rascio, V. J. D. See **Gramain, P.,** 972.

Rash, A. E. Comparison of sample preparation for phosphorus determination in grain and stock feeding-stuffs, 3090.

Rashid, A. See **Hashmi, M. H.,** 1426, 2732, 2870, 2881.

Rashkovan, B. A., Paladienko, N. P., and **Mashevskaya, S. N.** Use of the phenol - hypochlorite reaction for determining the isocyanato-function of di-isocyanatotoluene, 285.

Rasmussen, H., and **Nielsen, R.** Improved instrument for determination of adenosine triphosphate by the luciferase method, 3726.

— See also **Nielsen, R.,** 3739.

Rasmussen, K. Use of interference filters in the colorimetric determination of sulphur and lead, 4016.

Raspi, G., and **Pergola, F.** Polarographic determination of iodide, bromide and chloride by using a platinum electrode with periodic renewal of the diffusion layer, 1413.

Ratcliffe, D. B., and **Cunningham, A. T. S.** Semi-micro determination of total sulphur in coal by the oxygen - flask method, 883.

— and **Young, T. L.** Oxygen - flask method for determination of chlorine in coal, 2142.

Rathkamp, G. See **Hoffmann, D.,** 3637.

Ratnikova, K. S. See **Negina, V. R.,** 327.

Rauda, V. See **Parker, F.,** 1025.

Rausch, H. See **Szabo, E.,** 81.

Rauschenbach, P. See **Simon, H.,** 531.

Rauterberg, E., and **Ossenberg-Neuhaus, H.** Photometric end-point determination in the complexometric titration of calcium and magnesium, 3333.

Raven, J. L., Robson, M. B., Walker, P. L., and **Barkhan, P.** Effect of cyanide, serum and other factors on the assay of vitamin B$_{12}$ by a radioisotope method with use of [^{57}Co]vitamin B$_{12}$, intrinsic factor and coated charcoal, 2960.

Ravindranath, K., and **Patel, C. C.** Titrimetric determination of tetra-alkylthiuram disulphides by oxidation with chloramine T, 1460. Volumetric determination of tetra-alkylthiuram disulphides, 2802.

Rawat, J. P. See **Qureshi, M.,** 802, 804.

Rawson, R. A. G. See **National Research Development Corporation,** 3202.

Ray, N. J. See **Hawthorn, D.,** 578.

Raynal, M. See **Boulet, R.,** 936.

Razevska, D., and **Dowling, J. T.** Improved chromatography of organic iodine compounds on Tris - maleate buffer-treated paper, 2329.

Razik, F. A. A. See **Abdel Razik, F. A.**

Razumova, G. N. See **Shuba, I. D.,** 2049, and **Vasil'ev, I. Ya.,** 3355.

Razuvaev, V. A. See **Berezin, I. A.,** 3308.

Reade, M. J. A. See **Majer, J. R.,** 708.

Rech, J. Quantitative extraction of lipids from cereals, 3089.

Rechnitz, G. A. [Analytical reviews, 1968]—Kinetic aspects of analytical chemistry, 677.

— and **Lin, Z. F.** Potentiometric measurements with calcium-selective liquid - liquid membrane-electrodes, 1304.

— See also **Srinivasan, K.,** 157, and **Hseu, T.-M.,** 2081, 3236.

Redalieu, E., Nilsson, I. M., Farley, T. M., Folkers, K., and **Koniuszy, F. R.** Determination of ubiquinone 10 in human blood, 1104.

Reddy, G. S. See **Gehring, D. G.,** 977.

Reddy, M. C., Bills, D. D., Lindsay, R. C., Libbey, L. M., Miller, A., III, and **Morgan, M. E.** Ester production by *Pseudomonas fragi.* I. Identification and determination of esters produced by milk cultures, 3038.

Redford, R. A. See **Hyde, A. F.,** 3916.

Reeck, G. R. See **Lingren, W. E.,** 3447.

Reed, D. J., and **Gillieson, A. H.** Dead-time correction in X-ray spectrography, 2484.

Reed, G. W. See **Jovanovic, S.,** 68.

Reed, K. P. See **Berg, E. W.,** 3309.

Reed, P. J. See **Urwin, J. R.,** 1514.

Rees, T. B. See **Perkins, M.,** 176.

Rees, T. C. See **Morgan, K.,** 3814.

Reeves, H. C. See **Furmanski, P.,** 2350.

Reichle, A., and **Tengler, H.** Determination of uptake of plasticisers from plastics by foods. IV. Transfer of bis-(2-ethylhexyl) phthalate and phenol and cresol alkanesulphonates from synthetic rubber into milk, 1733.

Reid, C. F. See **Scherfig, J.,** 3887.

Reid, J. D., and **Watts, D. C.** Flow-through cell for analysing sucrose density gradients in a recording spectrophotometer, 2506.

Reid, M. S., and **Bieleski, R. L.** Simple apparatus for vertical flat-sheet polyacrylamide-gel electrophoresis, 628.

Reid, P. E. See **Dutton, G. G. S.,** 3504.

Reid, V. W., Longman, G. F., and **Heinerth, E.** Determination of anion-active detergents by two-phase titration. II, 1499.

Reilley, C. N. Electrochemistry using thin-layer cells, 3237.

— See also **Yildiz, A.,** 2520.

Reilly, D. A. Test-paper determination of diisocyanatotoluene vapour in air, 565.
Reinhard, C. GLC analysis of cider, 3813.
Reinisch, G., and **Dietrich, K.** Analysis of polycaprolactam. III. Reliability of determinations of compounds of low molecular weight in polycaprolactam, 1509; IV. Interferometric determination of compounds of low molecular weight in polycaprolactam, 1509.
Reinmuth, W. H. [Analytical reviews, 1968]—Electrochemical relaxation techniques, 677.
Reinstein, H. See **Braverman, L. E.,** 1594.
Reis Arruda, A. A. See **Arruda, A. A. R.**
Reisch, J., Alfes, H., and **Moellmann, H.** Analysis of drug mixtures. XI. Identification of phenethylamine derivatives by NMR spectrometry, 1702. High-voltage electrophoresis of some phenethylamine derivatives of pharmaceutical interest, 2357.
— See also **Moellmann, H.,** 1313.
Reiss, J. A. See **Bowie, J. H.,** 1483.
Reitemeyer, H. O. See **Schulz, H.,** 3567.
Relph, S. J. See **Fairbairn, J. W.,** 595.
Rendell, D. A. E. See **Brown, J. M.,** 2501.
Renkonen, O. Individual molecular species of phospholipids. VII. Analysis of lecithins containing ten to twelve double-bonds, 400.
Renous, D., Steiner, J.-P., and **Zwobada, F.** Determination of extraction solvents in oil cake, 543.
Repas, A., and **Nikolin, B.** Separation of phenolic glucosides and carbohydrates from the bark of *Populus tremula* by gel filtration, 1669.
Reppel, L., and **Scholz, F.** High-frequency titration and its use in pharmacy, 4024.
Resnick, G. L. See **Sandberg, D. H.,** 1002.
Ress, J. See **Higginbotham, G. R.,** 3114.
Reti, S. Amperometric titrations with sulphite ions, 688.
Reule, A. Study of spectrophotometer linearity, 2504.
Reutner, F. Analysis of waxes and wax mixtures by TLC, 340.
Revenko, A. G. See **Losev, N. F.,** 3977.
Rexall Drug and Chemical Co. Determination of molecular size distribution curves of polymers by column chromatography, 1510.
Rexroad, P. R., and **Krause, G. F.** Determination of total nitrogen in fertilisers, 3103.
Reyes, R. J., and **Neville, J. R.** Electrochemical determination of carbon dioxide content of blood, 2866.
Reymond, D. See **Thier, H.-P.,** 3065.
Reynik, R. J. See **Sauer, W. E.,** 1311.
Reynolds, G. F. See **Pyburn, C. M.,** 1992.
Reznikov, S. A., and **Murzin, G. M.** Apparatus for gas-chromatographic determination of methylamines in aqueous solutions, 3523.
Rhodes, C. See **Wall, H.,** 358.
Rhodes, C. T. See **Goodman, H.,** 3767.
Rhodes, J. R., and **Furuta, T.** Applications of a portable radio-isotope X-ray fluorescence spectrometer to analysis of minerals and alloys, 1310.
Rhodes, M. J. C., and **Wooltorton, L. S. C.** Fluorimetric determination of pyridine nucleotides in plant material, 437.
Ricci, B. A. See **Secor, G. E.,** 2095.
Ricci, E. See **Lyon, W. S.,** 677.
Rice, A. C. Collaborative study of the identification of grape varieties, 3040.
Rice, E. W. Micro-determination of haemoglobin-iron in whole blood, and in blood samples stored on paper, by improved ferric thiocyanate spectrophotometry, 365.
Richards, E. G. Spectrophotometric determination of nucleotide composition of polyribonucleotides, 439.
Richards, L. P. See **Noujaim, A. A.,** 1851.
Richardson, M. See **Speed, D.,** 3689.
Richardson, M. L. Determination of sodium in hen-egg yolk, 1730.
Richter, W. See **Vetter-Diechtl, H.,** 1056.
Richters, A. R. See **Os, F. H. L. van,** 466.
Rick, W. Substrate specificity and properties of lipolytic enzymes in serum, 1313.
— and **Stegbauer, H.** Determination of amylase activity in urine, 1313.
Rickards, T. See **Fabianek, J.,** 1647.
Ricq, J. C. Use of superimposed ion-exchang columns in neutron-activation analysis, 2528.
Ridgway, K. See **Deer, J.,** 4018.
Ridley, R. G. See **Tyrrell, A. C.,** 1912.
Rieder, S. V. See **Hadjivassiliou, A. G.,** 387.
Riegler, H. See **Nebe, W.,** 4019.
Riemer, G. See **Koch, K. H.,** 865.
Rigler, F. H. Inconsistencies in the molybdenum blue determination of orthophosphate in lak water, 1204.
Rijnders, G. W. A. See **Sie, S. T.,** 792.
Riley, C. See **Vickers Ltd.,** 1232.
Riley, G. H. See **Ables, J. G.,** 652.
Riley, J. P., and **Taylor, D.** Use of chelating resin for concentration of trace elements from sea-water and in conjunction with atomic-absorptio spectrophotometry, 575. Use of chelating io exchange in the determination of molybdenum and vanadium in sea-water, 1212.
Rimmer, J. G. Study of sample distribution in thi chromatographic layers, 3154.
Rinderknecht, H., Geokas, M. C., Silverman, P., an **Haverback, B. J.** Ultra-sensitive determinatio of proteolytic activity, 3735.
— and **Silverman, P.** Determination of xanthin and guanine in microgram quantities, 2956.
Ringborg, U. See **Daneholt, B.,** 1088.
Ringhardtz, I., and **Welz, B.** Applications o atomic-absorption spectrophotometry in bio chemistry, 1313.
Rio, M. E., and **Sanahuja, J. C.** Micro-determinatio of free and total non-protein-bound tryptopha in plasma, 1609.
Riolo, C. B. See **Bertoglio Riolo, C.**
Ripan, R., and **Tautu, G.** Bromatimetric determina tion of ascorbic acid. II. Use of 2,6-dichloro phenolindophenol as redox indicator, 1093 Determination of ascorbic acid by means c cupric salts. III. Use of the redox syste iron^{II} - iron^{III} - thiocyanate for indication of th end-point, 2797.
— **Varhelyi, C.,** and **Szotyori, L.** Volumetri determination of alicyclic α-dioximes, 928.
— and **Vericeanu, G.** Chronometric micro-dete mination of selenium, 827. Gravimetric dete mination of cadmium as selenite, 2615.
Rissanen, K., and **Miettinen, J. K.** TLC of alkyl and alkoxy-mercury derivatives and location c mercury in the yolk of hen eggs, 3028.
Ritchie, C. D. See **Coetzee, J. F.,** *Book*: Nov.
Riva, M., and **Carisano, A.** Use of a compact dua channel flame ionisation - thermionic detector fo high-specificity GLC, 3961.
Rizescu, I. See **Dimofte, L.,** 927.
Roach, M. K., and **Creaven, P. J.** Micro-determina tion of acetaldehyde and ethanol in blood, 363
Roaf, A., and **Brickey, P. M., jun.** Extraction c extraneous materials from ground cinnamo 1746.
Robas, V. I. See **Val'kovskii, D. G.,** 1493.

Robbins, R. C., Borg, K. M., and **Robinson, E.** Continuous determination of carbon monoxide in the atmosphere, 561.

Robens, E., Sandstede, G., Walter, G., and **Wurzbacher, G.** Convection effects in a micro-balance, 3895.

Roberts, G. A. H. Determination of iron, nickel, chromium and vanadium in admixture by means of redox and anion-exchange columns, 3310.

Roberts, J. Separation of scopoletin from fluorescent compounds in roots of *Pisum sativum* var. meteor by Sephadex-gel filtration, 1020.

Roberts, J. B., Bush, I. E., and **Gibree, N. B.** Comprehensive analysis of urinary steroids, 2308.

Roberts, L. A. Collaborative study of a GSC determination of dichloromethane, 1,2-dichloroethane and trichloroethylene residues in spice oleoresins, 3053.

Roberts, M. H. See **Cotton, Silk and Man-Made Fibres Research Association,** 1235.

Roberts, R. F., and **Wilson, R. H.** Determination of ferrocyanide and related compounds in commercial sodium chloride, 1348.

Roberts, T., and **Fritz, J. C.** Determination of choline in feeding-stuffs, 3109.

Roberts, W. A. Preparation of liquid-scintillation mixtures for the measurement of carbon-14 and tritium samples, 3251.

Robertson, D. E. Contamination in trace-element analysis of sea-water, 2443.

Robertson, J. A. See **Alexander, T. G.,** 3093.

Robertson, R. See **Fritze, K.,** 2855.

Robertson, T. J. See **Adams, D. F.,** 1196.

Robertson, W. G., and **Peacock, M.** Separation and measurement of the calcium fractions of normal human serum, 1541.

Robin, J. See **Jequier, W.,** 3943.

Robins, E. See **Sherman, W. R.,** 1105.

Robinson, C. See **Weatherell, J. A.,** 1011.

Robinson, E. See **Robbins, R. C.,** 561.

Robinson, J. R. See **Mikkelson, T. J.,** 2165.

Robinson, R. A. See **Covington, A. K.,** 1303, and **Hetzer, H. B.,** 7.

Robison, L. L. See **Hanneman, W. W.,** 970.

Roborgh, J. R. See **Buisman, J. A. K.,** 3752.

Robson, M. B. See **Raven, J. L.,** 2960.

Roca, F. F. See **Figueras Roca, F.**

Roca Adell, M. See **Capdevila Perez, C.,** 2108.

Rocchiccioli, C., and **Townshend, A.** Interferences in the atomic-absorption spectrophotometry of calcium, 747.

Roche, R. Use of the television microscope in the micrographic determination of combined oxygen at oxide inclusions in steel, 182.

Rochelmeyer, H. See **Roder, E.,** 3938.

Rochkind, M. M. Quantitative i.r. analysis of mixtures of isotopically labelled gases and liquids, 1287. Analysis of gas mixtures by i.r. pseudo-matrix isolation spectroscopy, 1445.

Rochlitz, J. See **Wilk, M.,** 1313.

Rochon, F. D. See **Heumann, W. R.,** 3312.

Rockmore, C. S. See **Phillips, G. B.,** 380.

Rodari, E. See **Colombo, A.,** 2625.

Rodden, C. J. See **Goldbeck, C. G.,** 2079.

Roden, L. See **Fransson, L.-A.,** 1570.

Roder, H. See **VEB Labortechnik Ilmenau,** 3899.

Rodicheva, M. F. See **Mishchenko, A. P.,** 212.

Rodson, M. See **Geoghegan, J. T.,** 3599.

Rodziewicz, W., Kwiatkowska, I., and **Kwiatkowski, E.** Determination of phenols by the kinetic method. I. Phenols in aqueous solutions, 3531.

Roeder, E., Mutschler, E., and **Rochelmeyer, H.** Use of homogeneous azeotropic mixtures in TLC. I, 3938.

Roehr, E. E. See **D'Andrea, N.,** 3615.

Roelandts, I., and **Duchesne, J. C.** Precision and accuracy of the analysis of silicate rocks, 107.

Rofael, N. See **Wahba, S. K.,** 2387.

Rogal'skaya, G. K., and **Serazetdinov, D. Z.** Paper-chromatographic study of the hydrolysis products of the potassium analogue of Kurrol's salt, 3323.

Rogers, D. W., Lillian, D., and **Chawla, I. D.** Micro-scale phase titrations applied to perfuming and flavouring agents, 2832.

— See also **Walters, D. B.,** 1169.

Rogers, L. B. See **Neddermeyer, P. A.,** 692, and **Streuli, C. A.,** 149.

Rogers, M. T. See **Pan, Y. K.,** 650.

Rogozhin, S. V. See **Val'kovskii, D. G.,** 1493.

Rohleder, K. See **Brandenburg, G.,** 1171.

Rohlfing, W. See **Fahr, E.,** 1313.

Rohns, G. See **Schmidt, H.-L.,** 1313.

Rohrbaugh, L. M. See **Winkler, B. C.,** 3651.

Rohrlich, M., and **Gallert, H.** Isolation and identification of peptides from the peptic hydrolysate of wheat gliadin. I. Chromatographic and electrophoretic separation of peptic hydrolysates, 2941; II. Investigation of the isolated peptides, 2941.

Roizenblat, E. M. See **Zhivotovskaya, I. A.,** 2863.

Rokosz, A., Paulik, J., Paulik, F., and **Erdey, L.** Relationship between peak area and sample size in differential thermal analysis, 2532.

Rolle, W., Huebner, H., and **Hartenstein, R.** Isotope-dilution analysis with stable isotopes. III. Determination of small amounts of nitrate in ground α-alumina, 765.

— See also **Lange, P. W.,** 2238.

Roller, K., and **Wright, G. F.** Analysis of buffered tablets of aminosalicylic acid - isoniazid, 3774.

Romalo, D. See **Nachman, M.,** 2499.

Roman, J.-P. See **Gouezo, F.,** 1692.

Roman, L., Craciuneanu, R., and **Popper, E.** Absorptiometric determination of palladium with 5-anilino-1,3,4-thiadiazole-2-thiol, 1427.

Roman Ceba, M. See **Capitan-Garcia, F.,** 58, 746.

Romanenko, E. G. See **Lunina, G. E.,** 1418.

Romanova, N. S. See **Zhechkova, L. A.,** 806.

Romantsev, M. F., Sydykova, D. S., and **Saraeva, V. V.** Determination of hydroperoxides in oxidation products of olefins, 232.

Romantseva, T. I. See **Peshkova, V. M.,** 2026.

Romovacek, J., and **Kubat, J.** Characterisation of coal substance by pyrolysis - GLC, 2224.

Rondini, G., and **Zaverio, S.** Identification of 2,5-dihydroxyphenylacetic acid in the urine of alcaptonurics by TLC, 395.

Rony, P. R. Extent of separation as a universal separation index, 3147.

Rook, H. L., Schweikert, E. A., and **Wainerdi, R. E.** Study of chemical etching procedure used to remove surface oxygen contamination in charged-particle activation analysis of aluminium or silicon matrices, 2624.

Root, C. B. High-temperature sample furnace for use with a spectrophotometer, 2505.

Roovers, J., Evrard, E., and **Vanderhaeghe, H.** Determination of human blood bile acids, 408.

Rosan, R. C. See **Peppers, N. A.,** 3192.

Rosano, H. L. See **Cante, C. J.,** 2432.

Rose, H. J., jun., and **Cuttitta, F.** X-ray fluorescence spectroscopy for the analysis of ores, minerals and water, 1310. X-ray fluorescence analysis of individual rare-earth metals in complex minerals, 1314.

— See also **Cuttitta, F.,** 1314, 3188.

Rose, L. P. See **Supina, W. R.,** 3952.

Rosebrook, D. D., and **Barney, J. E.** Investigation of the determination of volatile isothiocyanates in mustard seed and mustard flour, 1742.
— **Bolze, C. C.**, and **Barney, J. E.** Improved determination of steam-volatile oil in cassia, 1743. Determination of extractable colour in capsicum spices, 1744.
Rosen, M. See **Dryhurst, G.**, 3238.
Rosenblum, C., and **Meriwether, H. T.** Isotope-dilution assay for dexamethazone in pharmaceutical preparations, 1706.
Rosenstein, M. J. Device for applying streaks to thin-layer chromatograms, 598.
Rosicky, J. Apparatus for differential thermal analysis of single crystals, 1935.
Ross, H. H. See **Lyon, W. S.**, 677.
Ross, J. W., jun. See **Durst, R. A.**, 2723, and **Frant, M. S.**, 2437.
Rossouw, J. H., Walt, C. F. J. van der, and **Marais, E. P.** Use of tape machine and direct-reading spectrograph for determination of trace elements in plant material, 2857.
Rotermund, H.-M. See **Schreiber, G.**, 1313.
Roth, M. E. See **Ramirez-Munoz, J.**, 695, 861.
Rother, W. See **Perkampus, H.-H.**, 1903.
Rottmann, C. L. J. Determination of oxygen and nitrogen in carbides and nitrides of uranium and several transition metals, 20.
Rotzsche, H. Uses of monomeric and polymeric organosilicon compounds in GLC, 3954.
— and **Jurczyk, H.-U.** Fluorine chemistry. XXIV. Simultaneous determination of carbon, hydrogen, fluorine and chlorine or bromine, 3486.
Roucache, J. See **Boulet, R.**, 936.
Rousselet, F. See **Girard, M. L.**, 3771.
Roux, J. See **Portier, J.**, 2719.
Rovira, J. M. R. See **Rafols Rovira, J. M.**
Rowe, J. J., and **Simon, F. O.** Determination of gold in geological materials by neutron-activation analysis using fire assay for the radiochemical separations, 3330.
Rowland, S. P. See **Pearcy, L. Z.**, 260.
Rowntree and Co. Ltd. Determination of the moisture content and other properties of solids and liquids, 718; 719.
Roy, A. K., Syamalarao, K., and **Bhattacharyya, B. N.** Gravimetric determination of tungsten in ores and minerals free from tin, niobium and tantalum, 2716.
Roy, Amalendu. K. See **Bhatnagar, R. M.**, 3844.
Roy, F. Separation of monobrominated isomers of *NN*-dimethylaniline, dimethyl(phenyl)phosphine and dimethyl(phenyl)arsine by GLC, 923.
Roy, J. C. See **Ujihira, Y.**, 871.
Rozenfel'd, G. S. See **Trakhtenberg, D. M.**, 3746.
Rozycki, Cezary. See **Minczewski, J.**, 3449.
Rozycki, Czeslaw. See **Krasnodebski, P.**, 2161.
Rozylo, J. See **Waksmundzki, A.**, 2455.
Ruane, M. M. See **Quickfit & Quartz Ltd.**, 3893.
Rubeska, I., and **Moldan, B.** Investigations on long-path absorption tubes in atomic-absorption spectrophotometry, 641. Use of heated Fuwa tubes, 3212.
Rubin, M. B., and **Brown, A. P.** Gas-chromatographic stability of epimerisable steroids, 1031.
Rubin, R. T. See **Clark, B. R.**, 3672.
Rubinshtein, A. M. See **Yakerson, V. I.**, 2171.
Rubinskaya, T. Ya., Khusid, L. B., and **Gallai, Z. A.** Amperometric determination of rhenium. IV. Titration of rhenium^{VII} with vanadium^{II} salt solution, 166.
Rubtsova, E. S. See **Kreshkov, A. P.**, 1327.
Rudas', V. I., Gavrilina, L. Ya., and **Novitskaya, R. N.** Study of the composition of the products of heating heptane in the presence of a platinum catalyst by GLC, 3495.
Rudd, B. T., and **Black, S.** Contribution of 5β-pregnane-3α,17α,20α-triol and 3α,17α,20α-trihydroxy-5β-pregnan-11-one to the fluorimetric measurement of plasma hydrocortisone, 1042.
Rudd, D. W. See **Ballman, A. A.**, 4003.
Rudder, J. de. See **Lando, D.**, 1086.
Rudenko, B. A. Determination of areas of asymmetrical gas-chromatographic peaks, 3173.
— **Mavrov, M. V., Derzhinskii, A. R.**, and **Kucherov, V. F.** GLC of acetylenic compounds, 2786.
— **Noravyan, A. A.**, and **Kucherov, V. F.** Calculation of areas under gas-chromatographic peaks that are not contained by the chart scale, 2471.
Rudenko, N. P. Radiochemical analysis: progress report, 3.
— and **Al Samarai, A. M.** Extraction of thorium with benzohydroxamic acid, 2029.
Rudnevskii, N. K., Maksimov, D. E., Demarin, V. T., and **Baldova, N. I.** Spectrographic analysis of zinc selenide for excessive selenium or zinc in a hollow cathode, and for excessive zinc in a direct-current arc, 2614.
— **Tumanova, A. N., Kutergina, L. V.**, and **Pozdnyakova, N. A.** Spectrographic determination of bismuth, aluminium and boron in white cast iron with a hollow-cathode discharge, 2115.
— See also **Dryakhlov, A. I.**, 1959.
Rudnicki, A., and **Niewiadomski, H.** Determination of nickel in margarine, 3803.
Rudy, J. L. Effect of quality control on interlaboratory performance, 2268.
Ruecker, G. See **Bohn, G.**, 370.
Ruhl, H. D., jun. See **Bartz, A. M.**, 4009.
Ruitenberg, G. Use of a thermally controlled Stark absorption cell for microwave spectroscopy, 3225.
Rulison, D. S., Arthur, P., and **Berlin, K. D.** Modified molecular sieve reflux extractor for efficient dust-free dehydrations, 1841.
— See also **Arthur, P.**, 3240.
Rumsby, M. G. Identification of monoglyceride contamination in alkyl ether preparations by GLC, 1581.
Runge, A. See **Lange, P. W.**, 2238.
Rupp, R. See **Deer, J.**, 4018.
Rusakowicz, R., and **Testa, A. C.** Comparison of quinine bisulphate and 9,10-diphenylanthracene as fluorescence standards, 654. 2-Aminopyridine as standard for long-wavelength spectrofluorimetry, 3987.
Rusanov, A. K., Alekseeva, V. M., and **Il'yasova, N. V.** Spectrographic determination of small amounts of thorium in silicate rocks, 2669.
— See also **Alekseeva, V. M.**, 2075.
Rusek, M. See **Rabbani, G. S. M.**, 3165.
Rushizky, G. W. See **Toal, J. N.**, 1085.
Russ, P. L., and **Bevill, R. D.** General procedure for degrading radioactive aldoses, 1012.
Russell, C. H. See **Gehrke, C. W.**, 3100.
Russell, D. S. See **Tymchuk, P.**, 2592.
Rustamov, Kh. R. See **Evstaf'eva, I. P.**, 2836.
Rustamov, N. Kh. See **Bagbanly, I. L.**, 1370, 2629.
Rusu, V. See **Ciuhandu, G.**, 1009.
Rus'yanova, N. D. See **Kondratov, V. K.**, 294.
Rutberg, L. G., and **Chovnyk, N. G.** Polarographic determination of lead by means of the current of reduction of lead dioxide, 2675.
Ruth, G. W., and **Schill, R.** Separation and determination of derivatives of 1,3,5-triazine-2,4,6-trione by GLC, 3560.

uth, J. M. Mathematical solution of the mass-spectrometric standard-mixture problem, 1298.

— See also **Bierl, B. A.**, 1873.

utkowski, W., and **Basinska, M.** Spectrophotometric determination of gallium in silicate minerals and high-purity materials after extraction of the gallium - Rhodamine B complex with *o*-dichlorobenzene, 2628.

— See also **Basinska, M.**, 3441.

utten, A. M. G. Dispersion staining as an aid to drug identification, 2351.

uzicka, E. Potentiometric micro-determination of derivatives of 2-amino- and 7-amino-phenoxazin-3-one by bromination, 2825.

— See also **Stuzka, V.**, 2541.

uzicka, J., and **Lamm, C. G.** Determination of mercury by automated radiochemical analysis based on sub-stoicheiometric separation, 3345.

— See also **Stary, J.**, 2547.

uzicka, J. H. A., **Thomson, J.**, **Wheals, B. B.**, and **Wood, N. F.** Application of gel chromatography to the separation of pesticides. I. Organophosphorus pesticides, 552.

yan, D. E. See **Afghan, B. K.**, 801, 1214, **Cassidy, R. M.**, 1349, and **Frei, R. W.**, 2566.

yan, V. A. See **Sedlacek, W. A.**, 723.

yazanov, I. P. See **Agafonova, V. I.**, 771.

yazantseva, I. M., and **Chernyshova, L. I.** Separation of caesium from dilute solution, 3324.

ybak, M., **Mansfeld, V.**, **Petakova, M.**, and **Simonianova, E.** Determination of enzymes splitting *N*-acetyltyrosine ethyl ester, 446.

yder, W. A. See **Woodriff, R. A.**, 3209.

ygaert, J. See **Beaudet, C.**, 1826.

ylova, N. A. See **Strel'nikova, N. P.**, 3471.

zadkowska-Bodalska, H. See **Olechnowicz-Stepien, W.**, 1074.

zaev, B. Z. See **Bagbanly, I. L.**, 3474.

S

abapathy, T. See **Rai, R. M.**, 2939.

abbioni, E. See **Girardi, F.**, 1, 1535.

abirov, S. See **Ganiev, A. G.**, 136.

absai, B. I. Determination of proteolytic activity in gastric juice, blood and urine, 1101.

acelean, V. See **Marcu, G.**, 2653.

acha, S. See **Galus, Z.**, 3246.

achdev, S. L., and **West, P. W.** Micro-determination of orthophosphate in air by the ring-oven technique, 1816.

adar, M. H. See **Guilbault, G. G.**, 447, 2968.

adova, G. F. See **Zaikovskii, F. V.**, 1972.

adykov, A. S., **Ismailov, A. I.**, **Shukurov, Z. Sh.**, and **Ermatov, A.** Use of gossypol as reagent for absorptiometric determination of sulphonamide, 3772.

aenger, E. L. See **Chen, I-W.**, 1632.

agan, Z. Application of ethacridine lactate for determination of serum transferrin, 3715.

aglietto, G. See **Bighi, C.**, 892, 2461.

agrera, J. L. Determination of α-quartz by X-ray diffraction, 879.

ahagian, A. V. See **Alexander, P.**, 2656.

ahasrabudhe, M. R., and **Legari, J. J.** Determination of propane-1,2-diol fatty acid esters in shortenings containing mono- and di-glycerides by GLC, 522.

ahores, J. Use of cine diffractometry, 630.

t. John, L. E., jun., and **Lisk, D. J.** Determination of residues of organophosphorus insecticides by alkali thermionic GLC of their methylated alkyl phosphate hydrolytic products, 2407.

— See also **Bache, C. A.**, 2430.

Saito, A. See **Goto, H.**, 2117, and **Hirokawa, K.**, 1367.

Saito, M., **Niwa, M.**, and **Kanno, T.** [Annual review, 1968]—Clinical chemistry, 1948.

Saitoh, K. See **Kambara, T.**, 2468.

Sajo, I. Kinetic titration with differential thermometric detection of the end-point for determination of cobalt, 2749.

— and **Sipos, B.** Rapid thermometric analysis of magnesite and dolomite, 2766.

Sakaguchi, T., **Tanabe, S.**, and **Fukumoto, M.** [Annual review, 1968]—Titrations in non-aqueous solvents, 1948.

Sakai, K. See **Ikekawa, N.**, 2306.

Sakharov, A. A. See **Sal'nikova, R. D.**, 851.

Sakurai, K., **Yoshii, E.**, **Hashimoto, H.**, and **Kubo, K.** GLC of steroids of toad-cake. II. Re-investigation on the determination of bufadienolides, 2982.

Salam Khan, M. A., and **Stephen, W. I.** Study of formation of hydrogen peroxide in metallic reductors, 689.

Salata, A., and **Zanaroli, L.** Coulometric determination of oxide in zinc and lead, 2612.

Salatova, V. I. See **Georgievs'kii, V. P.**, 3009.

Salem, A. See **Mattern, P. J.**, 3834.

Salikhov, V. D., **Dedkov, Yu. M.**, and **Yampol'skii, M. Z.** Spectrophotometric study of azo-derivatives of R-salt as reagents for gallium, 3352.

— and **Yampol'skii, M. Z.** Calculation method for establishing a determination of gallium with 4-(5-chloro-2-hydroxy-3-sulphophenylazo)-3-hydroxynaphthalene-2,7-disulphonic acid, 2019.

Salim, E. F., **Haussler, A.**, and **Vaughan, J. E.** Qualitative and quantitative tests for frusemide, 1143.

— and **Murphy, J. E.** Qualitative and quantitative tests for allopurinol, 1144.

Salmi, M. See **Salo, M.-L.**, 2414.

Salmin, Yu. P. See **Shiryaeva, M. B.**, 3417.

Sal'nikova, R. D., and **Sakharov, A. A.** Polarographic determination of bromite, 851.

Salo, M.-L., and **Salmi, M.** Determination of starch by the glucoamylase method, 2414.

Salt, F. J. See **Gooderson, C. Y.**, 3617.

Salt, P. D. Automated determination of phosphorus in sodium hydrogen carbonate and calcium chloride extracts of soil, 2418.

Salter, W. J. M. Examination of quantitative electron-probe micro-analysis accuracy, 1889.

Saltykova, V. S. See **Viktorova, M. E.**, 2077.

Salzberg, H. W., **Morrow, J. I.**, **Cohen, S. R.**, and **Green, M. E.** Physical chemistry. A modern laboratory course, *Book*: Nov.

Samadov, K., and **Yankovskii, A. A.** Spectrographic determination of zinc, niobium and beryllium in minerals, 3297. Evaluation of practical limits of sensitivity of photographic emission spectrographic analysis, 3985.

Samarai, A. M. Al. See **Al Samarai, A. M.**

Samejima, M. See **Kodama, T.**, 3691.

Samokhvalov, G. I. See **Yanotovskii, M. Ts.**, 442.

Samosvat, L. S. Semi-quantitative determination of small amounts of monuron in water, algae and soil by TLC, 3876.

Samsoni, Z. See **Nagy, Z.**, 3215.

Samuelson, O., and **Stromberg, H.** Partition chromatography of mixtures containing polyhydroxy- and carbonyl compounds including sugars on ion-exchange resins, 1449. Determination of hexitols in the presence of saccharides, 3795.

Sanad, W. See **Alian, A.**, 3369.

Sanahuja, J. C. See **Rio, M. E.**, 1609.

Sanyal, G. S. See **Dutt, N. K.,** 1326.
Sanchez, L. G. See **Gasco Sanchez, L.**
Sanchez de Galarza, M. G. See **Schulz, E. P.,** 2917.
Sandberg, D. H., Resnick, G. L., and **Bacallao, C. Z.** Measurement of serum diphenylhydantoin by GLC, 1002.
Sandalls, F. J. See **Eakins, J. D.,** 979.
Sanders, B. J., and **Phillips, A. R.** Determination of pentachlorophenol from treated timber in water by GLC, 573.
Sanders, W. N., and **Maynard, J. B.** Capillary GLC for determinination of C_3 to C_{12} hydrocarbons in full-range motor petrol, 308.
Sandev, S., and **Beev, K.** Determination of organic acids in silage by Lepper's method and by liquid - liquid chromatography, 2422.
Sandhoff, K., Harzer, K., and **Jatzkewitz, H.** Densitometric micro-determination of gangliosides from total-lipid extract by TLC, 1026.
— See also **Harzer, K.,** 1313, and **Waessle, W.,** 1857.
Sandhu, R. S., and **Hokin, M. R.** Separation of cyclic adenosine 3′,5′-monophosphate from other adenine nucleotides by high-voltage paper electrophoresis, 1640.
Sandstede, G. See **Robens, E.,** 3895.
Sangal, S. P. Spectrophotometric determination of palladium^{II} by using Alizarin red S as chromogenic reagent, 195.
— See also **Agarwala, B. V.,** 132, and **Dabhade, S.B.,** 1957.
Sanina, N. L. See **Novikova, E. I.,** 2194.
Sanli, I. See **Amal, H.,** 2369.
Sansoni, B., and **Kracke, W.** Decomposition and ashing of organic substances by means of radicals in aqueous solution. II. Wet-ashing of foodstuffs and biological material by hydrogen peroxide - iron^{II}, 1313.
Santa Ana V., M. A. See **Donoso N., G.,** 2650.
Santoro, R. T. See **Love, T. A.,** 671.
Sanz-Burata, M., Julia-Arechaga, S., and **Irurre-Perez, J.** Resolution of racemic alcohols by gas chromatography via formation of diastereoisomers. II. Influence of the structure of the acid on the separation, 2790.
Sapira, J. D. Determination of urinary 4-hydroxy-3-methoxymandelic acid and free 4-hydroxy-α-hydroxymethyl-3-methoxybenzyl alcohol, 1024.
Sapozhnikova, E. Ya. See **Brainina, Kh. Z.,** 2017
Saprinovskaya, T. K. See **Chaikin, P. I.,** 795.
Sara, J. Dissolution of chromium^{III} oxide in bromates and in bromic acid for analytical purposes, 836.
Saraeva, V. V. See **Romantsev, M. F.,** 232.
Saravia, L. See **Caticha-Ellis, S.,** 1310.
Sardi de Valverde, J. See **Cavina, G.,** 473.
Sargent, B. W. See **Hanson, W. G.,** 670.
Sargent, M. See **Kirkbright, G. F.,** 3991.
Sarma, P. S. N., and **Nithyanandan, V. V.** Detection of argemone oil in edible oils by paper chromatography, 1172.
Sarry, B., and **Grossmann, Horst.** Titrimetric determination of lithium in the diphenyltungsten - phenyl-lithium complex, 3527.
Sarwar, M., and **Thibert, R. J.** Titrimetric determination of thiourea and thioacetamide with *N*-bromosuccinimide, 270.
Sarycheva, L. S. See **Arakelyan, V. G.,** 2187.
Sasaki, Shin-ichi, Watanabe, E., Itagaki, Y., Aoyama, T., and **Yamauchi, E.** Detection of meta-stable peaks by Mattauch - Herzog mass spectrometer, 1913.
Sasaki, Shozo. See **Furukawa, M.,** 3311.
Sassu, G. M., Zilio-Grandi, F., and **Conte, A.** Determination of impurities in vinyl chloride by GLC, 966.
Satoh, P. S., and **Ito, Yohei.** Quantitative rapid micro-assay of arginase, 1657.
Sattarov, M. M., Talanin, Yu. N., and **Khalikov, T** Determination of metals in coal by activation analysis, 1430.
Sauer, W. E., and **Reynik, R. J.** Study of solid-solution strengthening in iron - chromium alloys by using Mossbauer spectroscopy, 1311.
Saur, W. K., Crespi, H. L., Harkness, L., Norman, G. and **Katz, J. J.** Qualitative and quantitative isotopic analysis of ethyl groups containing both hydrogen and deuterium by combined NMR and mass spectrometry, 375.
Sautiere, P. See **Biserte, G.,** 2944.
Sautter, W. See **Bayer, E.,** 1313.
Sauvageau, P. See **Lombos, B. A.,** 644.
Savant, V. V., Gopalakrishnan, J., and **Patel, C. C** Volumetric determination of sulphoxides, 2803.
Savchenkova, V. P. See **Derko, V. I.,** 752.
Savel'eva, L. F., and **Kibisov, G. I.** Quantitative spectrographic analysis of substances of any composition. III. Determination of finely dispersed alkali metals in an electric discharge, 1976.
Savichev, E. I., and **Septarova, Z. S.** Polarographic determination of mercury in alkali sulphide solutions containing large amounts of antimony 2008.
Savinov, I. M. See **Kiselev, A. V.,** 3169.
Savrulina, V. I. See **Zaboeva, M. I.,** 824.
Savvin, S. B. Organic reagents in inorganic analysis progress report, 3.
— See also **Alimarin, I. P.,** 3414.
Saw, C. G. See **Kirkbright, G. F.,** 2674.
Sawada, M. Use of a mounting for concave-grating X-ray diffraction spectrometers, 631.
Sawaya, T. [Annual review, 1968]—Acids, alkal and industrial inorganic chemicals, 1948.
Sawicki, E., and **Carnes, R. A.** Fluorimetric determination of glycine and other amino-acids and primary amines with acetylacetone, 1054. Fluorimetric assay for α-glycolic compounds and other aldehyde precursors, 1819.
— **Engel, C. R., Elbert, W. C.,** and **Gerlach, E** Location and analysis of 2-deoxy-sugars on chromatograms and pherograms by fluorescence 3507.
— See also **Barber, E. D.,** 1820, and **Engel, C. R** 2436.
Sawyer, A. E. See **Aldersley, K.,** 2654.
Sawyer, D. T. See **Brookman, D. J.,** 2186.
Sax, S. M., and **Moore, J. J.** Fluorimetric determination of creatine kinase activity, 2966.
Saxena, K. K., and **Dey, A. K.** Specific colorimetric reagents for determination of palladium^{II}, 213
Saxena, O. C. Direct titrimetric micro-determination of uranium, 97. Titrimetric micro-determination of ruthenium^{III} or rhodium^{III}, 19 Titrimetric micro-determination of iridium^{III} cobalt^{III}, 199. Titrimetric micro-determination of samarium and neodymium, 2028. Titrimetric micro-determination of alanine, 2325. Micro-determination of L-leucine or DL-valine, 232 Titrimetric determination of thallium, 2633.
— See also **Masood, A.,** 2324, and **Pandey, J.** 1377.
Saxena, R. S., and **Jain, M. C.** Amperometric titration of alkali-metal thiomolybdate with lead^{II}, 843.
Sazikova, G. B. See **Dobkina, B. M.,** 140.
Sazikova, L. A. See **Serebrennikova, G. M.,** 2584.

azonov, M. L., Alymova, T. E., Selenkina, M. S., and **Zhukhovitskii, A. A.** Determination of germanium in coal by GLC, 881.

cala, E. See **Hay, D. R.,** 3431.

canlan, R. A., Arnold, R. G., and **Lindsay, R. C.** Collecting and transferring GLC fractions to capillary columns for fast-scan mass-spectral analysis, 3178.

— and **Lindsay, R. C.** Determination of biacetyl in milk by GLC with electron-capture detection, 3031.

chaefer, K. See **Walisch, W.,** 2775.

chaepdryver, A. F. de. See **Vochten, R. F. C.,** 472.

chalge, A. L., McCarty, B. D., and **Lewis, R. E.** Emission spectrographic determination of chromium in organic acids, 292.

chall, E. D., and **Hatcher, D. W.** Colorimetric determination of nitrate and nitrite in feeding-stuffs, 3107.

challer, K. H., Lindner, K., and **Lehnert, G.** Determination of heavy metals in potable water by atomic-absorption spectrophotometry, 3123.

— See also **Lehnert, G.,** 357.

challis, J. E., and **Kahn, H. L.** Determination of tin in used lubricating oils by atomic-absorption spectrophotometry, 3569. Use of the air-hydrogen flame in atomic-absorption spectrophotometry, 3996.

— See also **Kahn, H. L.,** 1274.

chanda, J. See **Lukacs, G.,** 4017.

chanderl, S. H. See **Aker, N. L.,** 3117.

chedle, H. See **Lassner, E.,** 3426.

cheidl, F. Use of an oxygen donor for the F & M CHN-Analyzer, 215.

cheiffarth, F., Goetz, H., and **Grottke, M.** Comparative biochemical studies of variously prepared liver extracts, 2332.

chepartz, A. I. See **Lerner, J.,** 1635.

cherfig, J., Reid, C. F., and **Pearson, E. A.** Determination of low levels of extractable organic acids in sludge digesters, 3887.

chersten, B., and **Tibbling, G.** Semi-automated assay of normal concentrations of urinary glucose by an enzymic fluorimetric technique, 374.

cherz, H. Determination of deoxy-compounds in irradiated carbohydrates, 3791.

chettino, O. See **Covello, M.,** 1670.

cheurenbrand, H. See **Keller, H.,** 1313.

cheurer, P. G. See **Gadbois, D. F.,** 2168.

chiaffino, J. See **Cayle, T.,** 504.

chievelbein, H., and **Grundke, K.** Determination of nicotine in blood and tissues by GLC, 1550.

chill, R. See **Ruth, G. W.,** 3560.

chilt, A. A., and **Hoyle, W. C.** Use of chromogens of the ferroin type. II. Pyrido- and pyridyl derivatives of phenazine and quinoxaline as reagents for iron and copper, 3445.

— and **Kluge, K. R.** Use of chromogens of the ferroin type. I. Substituted triazines related to 6-cyano-2,2′-bipyridyl, 1341.

chindler, R. Preparation and use of calibration substances based on natural rocks, 2137.

chiopu, M., Onu, V., Apostolescu, M., and **Silberman, L.** Colorimetric determination of nicotine in fermented tobacco, 2929.

chirra, M. See **Lehmann, G.,** 1313.

chlenk, H. See **Gellerman, J. L.,** 1163.

chlierf, G. See **Kahlke, W.,** 429.

chlitt, H. See **European Atomic Energy Community,** 1239.

chloegel, E. L. See **Goldbaum, L. R.,** 2701.

chlunegger, U. P. Direct GLC determination of ethanol in blood, 1008.

chmelz, E. See **Schmidt, H.-L.,** 1313.

Schmidt, E., and **Schmidt, F. W.** Determination of transaminases and creatine kinase in serum, 1313.

Schmidt, E. R. See **Taeuber, K. A. G.,** 204.

Schmidt, F. See **Steinke, G.,** 3740.

Schmidt, F. H. See **Stork, H.,** 2899.

Schmidt, F. W. See **Schmidt, E.,** 1313.

Schmidt, G. See **Kennan, R. W.,** 2305.

Schmidt, Hannelore. See **Liss, E.,** 1313.

Schmidt, Helmut. Use of u.v. and i.r. absorption spectrophotometry for analysis of mixtures of aromatic compounds, 2806.

Schmidt, H.-J. Use of the Remat process refractometer, 4020.

Schmidt, H.-L., Schmelz, E., and **Rohns, G.** Investigations on an i.r. spectrophotometric determination of nitrogen-15 and oxygen-18, 1313.

Schmidt, R. E. Determination of the moisture content ånd specific gravity of wood chips in a pressurised water system, 956.

Schmidt, Wolfgang [Muenchen, Germany]. Determination of copper and iron in blood serum by atomic-absorption spectrophotometry, 1313.

Schmidt, Wolfgang [Darmstadt, Germany]. See **Naumann, R.,** 3389.

Schmidt-Hebbel, H., Michelson, W., Masson, L., and **Stelzer, H.** Identification of anthocyanin colouring matter in Chilean grapes and their hybrids, in red wine and in maqui and mora by TLC, 3074.

Schmieder, H. See **Thiele, D.,** 4005.

Schmitt, D. H., and **Fritz, J. S.** Metal-ion separations using cellulose phosphate as an ion exchanger, 2546.

Schmitt, H. See **Hoffmann, H. H.,** 2902.

Schmitt, J. H., and **Zenk, M. H.** Determination of D-amino-acids by stereo-specific enzymic acetylation, 2322.

Schmitz, E. See **Ohme, R.,** 261.

Schmitz, K.-H. See **Dickens, P.,** 183.

Schneider, A. See **Warren, R. W.,** 929.

Schneider, F. See **Hamm, R.,** 3799.

Schneider, G. Detection and determination of small amounts of imipramine and some of its metabolites on paper chromatograms, 1553.

Schneider, H., and **Schumann, H.** Determination of zirconium, niobium, titanium and vanadium condensate and sodium sulphate from steam-cooled or sodium-cooled nuclear reactors by X-ray fluorescence analysis, 35.

— See also **Hein, W.,** 2039.

Schneider, I. Determination of microgram amounts of dihydric phenols by an impregnated-paper method. II. Determination of catechol in tar obtained by thermolysis of wood from leafy species, 957; III. Indirect determination of arbutin in plants, 2906.

Schneider, J. A., Bradley, K. H., and **Seegmiller, J. E.** Colorimetric assay of cystine by using noradrenochrome, 1059.

Schneider, W. Determination of oxides of sulphur in flue gases and waste gases, 2449.

Schoder, C. E. See **Garbini, L. J.,** 2497.

Schoenberg, J. See **Weisenberg, E.,** 3116.

Schoenberger, E., and **Bahmueller, S.** Coulometric determination of carbonates in caustic soda, 2578.

— and **Liteanu, C.** Conductimetric determination of carbonates in hydroxides, 2665.

Schoene, K. See **Holzapfel, H.,** 941.

Scholes, P. H. Application of atomic-absorption spectrophotometry to the analysis of iron and steel: review, 860.

Scholz, F. See **Reppel, L.,** 4024.

Schonfeld, E. See **Davis, W., jun.,** 1529.

Schormueller, J. Importance and limits of enzymic analyses of food, 1313.

— and **Schubert, W.** Determination of fumaric and maleic acids in foods, bread and biscuits, 523.

Schott, G., and **Popowski, E.** Silanols. VII. Potentiometric titration of substituted triphenylsilanols, 289; VIII. Potentiometric titration of substituted hexaphenyldisiloxanes, 3548.

Schramm, S. See **Bergner, H.**, 3845.

Schreiber, G., Rotermund, H.-M., Dimigen, E., and **Maeno, H.** Immunoprecipitation on chromatography-paper discs for the determination of singly- and doubly-labelled specific proteins, 1313.

Schrenk, W. G., Meloan, C. E., and **Frank, C. W.** Methods of increasing sensitivity of non-coincidental sharp-line sources for atomic-absorption spectrophotometry: magnetic control of hollow cathodes, 3207.

— See also **Popham, R. E.**, 2502.

Schriftman, H. See **Chafetz, L.**, 1136, 3532.

Schroeder, E., and **Mische, W.** Separation of plasticisers of different molecular weight by gel-permeation chromatography on lipophilic dextran gels, 969.

— See also **Helmstedt, M.**, 2847.

Schroeder, R. See **Nesemann, E.**, 2426, 3638.

Schroll, E., Huber-Schausberger, I., Janda, I., and **Spatzek, H.** Spectrochemical determination of traces of titanium and vanadium in high-purity graphite, 1386.

Schubert, W. See **Schormueller, J.**, 523.

Schuetz, K. See **Bock, R.**, 2433.

Schultz, H. D. See **Karr, C., jun.**, 2080.

Schultz, J. See **Felberg, N.**, 1652.

Schultze, D. Differentialthermoanalyse, *Book*: Nov.

Schultze, G. R., and **Kirchhoff, K.** Examination of mineral oil: review, 297.

Schulz, E. P., and **Molinero G., L.** Use of tin^{II} chloride - *NN*-dimethyl-*p*-phenylenediamine reagent for qualitative and quantitative determination of conjugated 3-oxosteroids, 1033.

— and **Sanchez de Galarza, M. G.** Modified Zimmermann reaction for the determination of oxosteroids, 2917.

Schulz, G., and **Fijolka, P.** Determination of the acidity constant of polyesters: application in analysis, 2846.

Schulz, H., and **Reitemeyer, H. O.** Behaviour of complex mixtures of C_8 to C_{16} hydrocarbons in capillary GLC, 3562.

Schulz, W., and **Seehofer, F.** Automated determination of nitrate in tobacco, 2275.

Schulze, P. See **Weymouth, J. W.**, 1263.

Schumann, G. See **Vogl, K.**, 3889.

Schumann, H. See **Hein, W.**, 2039, and **Schneider, H.**, 35.

Schuster, S. See **Weymouth, J. W.**, 1263.

Schwab, R. F. Use of cold dry-ashing in analytical biochemistry, 1313.

Schwachula, G., and **Haeupke, K.** Use of macroporous, cross-linked copolymers as packing materials in GSC, 610.

Schwartz, D. P., and **Brewington, C. R.** Isolation and characterisation of constituents of natural products. VI. Preparation of thio-esters of pyruvic acid 2,6-dinitrophenylhydrazone and resolution of a homologous series by TLC partition, 267; VII. Purification of alcohol ester, amide and thio-ester derivatives of pyruvic acid 2,6-dinitrophenylhydrazone with an anion-exchange resin, 255; IX. Separation of alcohol, primary amine and thiol derivatives of pyruvic acid 2,6-dinitrophenylhydrazone into classes, 2158.

— See also **Bassette, R.**, 2158.

Schwartz, J. H., and **Pade, A.** Apparatus for impregnating thin-layer plates, 1856.

Schwartz, K. See **Clauvel, M.**, 431.

Schwarz, K. See **Dieterle, P.**, 381.

Schwarz, R. See **Becton, Dickinson & Co.**, 3897 3898.

Schwarzenbach, G., and **Flaschka, H.** Complexometric titrations. Second Edn, *Book*: Nov.

Schweigart, H. Determination of oxidising capacity and manganese content of manganese dioxide ore, 2731.

Schweiger, A. See **Guenther, H.**, 1567.

Schweikert, E. A. Possibility of using an electromagnetic radio-isotope separator in conjunction with charged-particle and photon-activation analysis, 4025.

— See also **Rook, H. L.**, 2624.

Schweitzer, G. K., and **Anderson, M. M.** Solvent extraction of indium^{III} with carboxylic acids, 769.

Schwerd, W. See **Drabner, J.**, 1313.

Schwerdtfeger, E. Comparison of the determination of amino-acids by ion-exchange chromatography and by microbiological assay, 1313. Automated determination of amino-acids with a laboratory-made analyser, 2935.

Schwertassek, K. Colour reactions on squeezed fibre tips and their application, 962.

Scientific Industries Inc. Automatic liquid-sample dispensing device, 1228. Apparatus for automated continuous chemical analysis, 1229.

Scism, A. J. Determination of carboxy-group content of copolymers by the i.r. extinction-ratio method, 2843.

Scoggins, M. W., and **Miller, J. W.** Separation technique for mono- and di-sulphonic acids, 2181

Scott, C. C. See **Patterson, S. J.**, 3572.

Scott, C. D. Analysis of urine for its u.v. absorbing constituents by high-pressure anion-exchange chromatography, 2853.

Scott, F. I. See **Spillane, W. J.**, 287.

Scott, G. V. Spectrophotometric determination o cationic surfactants (with Orange II), 951.

Scott, P. M. Determination of aflatoxins in green coffee, 1756.

Scott, W. C. Collaborative study of recoverable oi in citrus juice by bromate titration, 3041.

Scottomatic Instruments Ltd. Constant-pressur device for measuring the volume of gas absorbe or evolved in a chemical reaction, 3145.

Scribner, B. F. See **Margoshes, M.**, 677.

Scribner, E. J. See **Peppers, N. A.**, 3192.

Scridon, F., and **Crisan, I. A.** Determination o indium^{III} with EDTA in the presence of haematoxylin, gallein or Eriochrome red B, 2630.

Scudamore, K. A. See **Heuser, S. G.**, 1192, 3857.

Scullion, H. G., Lewis, J., and **McCormack, J** Reversible complex formation as an identificatio aid in chemical microscopy, 3228.

Seago, J. L. See **Buchanan, E. B., jun.**, 657.

Searle, B. G., Li, Miyako, Briggs, J., Segall, P Widelock, D., and **Davidow, B.** Manual fluorimetric paper-disc method for determining tyrosin in blood, 2936.

Searle, P. L. Determination of total sulphur i soil by using high-frequency induction-furnac equipment, 3837.

Seco, J. L. J. See **Jimenez Seco, J. L.**

Secor, G. E., Ricci, B. A., and **White, L. M.** Microdetermination of perchlorate as chloride b oxygen - flask combustion, 2095.

Sedano, J. A. G. See **Galiano Sedano, J. A.**

Sedlacek, M. See **Boltezar, E.**, 649.

Sedlacek, W. A., and **Ryan, V. A.** Prompt activatio analysis for lithium-6, 723.

eger S., B., Fraile S., E., and **Arias, G. F.** Identification of groups of ions by fractional precipitation in a special centrifuge tube, 12.

egmiller, J. E. See **Schneider, J. A.,** 1059.

ehofer, F. See **Nesemann, E.,** 2426, 3638, and **Schulz, W.,** 2275.

idvash, F. Determination of boron mixed with polyphenyls, 2191.

gall, P. See **Searle, B. G.,** 2936.

her, A., and **Homberg, E.** TLC investigation of sterol mixtures, 3825.

idel, H. O. See **Zaduban, M.,** 2581, 3250.

idenstuecker, W. GLC determination of higher terpene alcohols after silylation, 1480.

idl, C. See **Radin, N. S.,** 10.

idler, E., and **Thieme, Heinz** [Berlin, Germany]. TLC analysis of tetrazolium salts, 2823.

idman, M. See **Jones, L. N.,** 1141.

idov, N. M. See **Androsova, V. M.,** 2259.

ifert, B. See **Asmus, E.,** 3810.

iffarth, K. See **Wohlrabe, W.,** 2510.

ler, N. [Biochemical analysis]—Applications of the 5-dimethylaminonaphthalene-1-sulphonyl method: review, 1313.

and **Werner, G.** Device for emission-spectroscopic determination of micro amounts of nitrogen-15, 1313.

and **Wiechmann, M.** Determination of 4-aminobutyric acid in the 10-picomole region as the 5-dimethylaminonaphthalene-1-sulphonyl derivative, 2940.

See also **Moeller, H.,** 1313.

ince, Y. See **Audidier, Y.,** 505.

itz, M. See **Hoerhammer, L.,** 3755.

itz, W. See **Eberhagen, D.,** 1878.

kiguchi, K., Horikoshi, I., Himuro, I., and **Mikami, S.** Studies on the method of thermal analysis of organic medicinals. VI. Simultaneous measurement of differential temperature and of dielectric behaviour, 4031.

lander, S., and **Cramer, K.** Determination of lead in urine by atomic-absorption spectrophotometry, 361.

lenkina, M. S. See **Sazonov, M. L.,** 881.

livokhin, P. I. See **Bork, V. A.,** 915.

mb, A. See **Kirkbright, G. F.,** 1334.

mbaev, D. Kh. See **Serazetdinova, V. A.,** 931.

menchenko, L. V., and **Kaplin, V. T.** TLC determination of organic substances in water and of anisole in ethyl ether, 571.

See also **Kaplin, V. T.,** 572.

menova, T. D. See **Pokrovskaya, E. I.,** 1047.

menovskaya, E. N. See **Shakhova, Z. F.,** 842.

mochkina, T. V. See **Pats, R. G.,** 828, 2083.

mon, M. A. See **Colarusso, V. G.,** 4032.

mov, M. P. Sorption of boron by anion exchange from hydrofluoric acid: use in analysis of 'pure' materials, 2010.

See also **Zil'bershtein, Kh. I.,** 642.

mper, A. T. J. See **Wal, B. van der,** 530.

nyantsev, V. N. See **Val'kovskii, D. G.,** 1493.

a, N. P. Uric acid as index of insect infestation in flour, 3017.

anayake, U. M., and **Wijesekera, R. O. B.** Determination of fat-free cocoa mass in chocolate products based on the theobromine and caffeine content, 3016.

etskaya, L. P. See **Kreshkov, A. P.,** 922.

ger, H., and **Baasch, G.** Spectrophotometric determination of ascorbic acid in urine with 2,6-dichlorophenolindophenol, 3660.

a Gupta, J. G. Determination of fluorine in silicate and phosphate rocks, micas and stony meteorites, 2720.

Senkowski, B. Z. See **Weber, O. W. A.,** 2985.

Sentsova, T. N. See **Kiryushov, V. N.,** 3232.

Septarova, Z. S. See **Savichev, E. I.,** 2008.

Serazetdinov, D. Z. See **Rogal'skaya, G. K.,** 3323.

Serazetdinova, V. A., Kagarlitskii, A. D., Sembaev, D. Kh., Umarova, R. U., Ivanovskaya, F. A., and **Suvorov, B. V.** Polarographic determination of products of the oxidative ammonolysis of 3-picoline, 931.

Serebrennikova, G. M., Sazikova, L. A., Plyushchev, V. E., and **Stepin, B. D.** Potentiometric determination of caesium, 2584.

Seremet, S. See **Vukcevic-Kovacevic, V.,** 127.

Serfas, O. See **Assmann, K.,** 608.

Sergeeva, T. V. See **Shiryaeva, M. B.,** 3417.

Serin, P. A. See **Day, G. T.,** 787.

Serlupi-Crescenzi, G., Paolini, C., and **Leggio, T.** Influence of pH on separation of nucleotides by electrophoresis and chromatography on ion-exchange paper, 1636.

Serrini, G., and **Wehking, W.** Methods for determining traces of phosphorus in polyphenyls: review, 2780.

Settimj, G. See **Marzadro, M.,** 213.

Settle, D. M. See **Anderson, G. H.,** 1, and **Bryan, D. E.,** 1.

Sevcik, S. See **Kupec, J.,** 1261.

Seward, R. J. See **Dingley, R. G.,** 1940.

Shabaeva, T. M. See **Androsova, V. M.,** 2259.

Shabana, R. See **Alian, A.,** 3369.

Shackleton, C. H. L., Charro-Salgado, A. L., and **Mitchell, F. L.** Urinary neutral steroid profile analysis in adults and infants, 2919.

Shah, Ramanlal C., and **Gandhi, R. S.** Use of silver electrode to determine chloride in dissolved-wool solutions, 960.

— See also **Kulkarni, M.,** 959.

Shah, Rasiklal C., Raman, P. V., and **Sheth, P. V.** Determination of chloramphenicol in blood, 1001.

Shahid, M. A. See **Hashmi, M. H.,** 26, 419, 2793, 2881.

Shahrokhi, F., and **Gehrke, C. W.** Quantitative GLC of sulphur-containing amino-acids, 3704.

Shaidurova, G. V. See **Lazebnaya, G. V.,** 15.

Shakhova, Z. F., Semenovskaya, E. N., and **Merkulova, A. A.** Non-aqueous titration of molybdosilicic acid, 842.

Shamaev, V. I. Determination of hafnium in zirconium by radiochemical methods. I, 2682.

Shamir, J., and **Netzer, A.** Laboratory distillation column for anhydrous hydrogen fluoride, 3913.

Shand, W. A. Detection of rare-earth-metal impurities in ionic materials by X-ray-stimulated fluorescence, 1378.

Shandon Scientific Co. Ltd. Applicators for paper or thin-layer chromatography, 1849.

Shane, B. See **Contractor, S. F.,** 2959.

Shane, N. A., and **Kowblansky, M.** Determination of aspirin, salicylamide, paracetamol and caffeine in tablets or powders by independent methods, 2373.

— and **Miele, D.** Potentiometric determination of fluoride ion in toothpaste by use of an ion-specific electrode, 2229.

— See also **Ferren, W. P.,** 1754.

Shanina, T. M., Gel'man, N. E., and **Bychkova, T. V.** Spectrophotometric micro-determination of phosphorus in organic compounds, 2781.

Shannon, G. M. See **Shotwell, O. L.,** 1781.

Shannon, T. W. See **Chait, E. M.,** 1296.

Shanya, M. V. See **Vasilenko, V. D.,** 780.

Shaova, L. G., Shelepin, O. E., and **Kaplin, V. T.** Polarographic determination of total monocarboxylic acids in water, 570.

Shapiro, I. L. See **Pen, R. Z.,** 2808.

Shapiro, L., and **Massoni, C. J.** Automatic sample changer for atomic-absorption spectrophotometry, 3204.

Shaposhnikov, Yu. K., Kosyukova, L. V., and **Druskina, E. Z.** GLC analysis of phenols of wood-tar, 3584.

Shaposhnikova, G. N. See **Tarayan, V. M.,** 1355.

Sharapova, G. N. Absorptiometric determination of silica in fluorspar and fluorite concentrate, 3336.

Sharipova, Sh. T., Dzhiyanbaeva, R. Kh., and **Talipov, Sh. T.** Extraction - photometric determination of zinc in the presence of diphenylguanidine, 2006.

Sharma, H. N. See **Mehrotra, S. N.,** 50.

Sharma, S. P. See **Parihar, D. B.,** 1525.

Sharp, W. B. A., and **Mortimer, D.** Accurate thermogravimetry in flowing gases, 4030.

Shastri, M. R. See **Ganatra, J. P.,** 1138.

Shatalova, A. A., Levin, I. S., Bykhovskaya, I. A., and **Kletenik, Yu. B.** Use of alkyl hydrogen phosphates in analytical chemistry. V. Determination of antimony, bismuth and iron in a single sample of tin-containing material, 36.

— See also **Levin, I. S.,** 818.

Shatirishvili, Sh. See **Eristavi, D. V.,** 3392.

Shaver, J. C. See **Kelly, W. G.,** 1040.

Shaw, D. J. Electrophoresis, *Book*: Oct.

Shaw, S. J. Butaneboronate esters as derivatives for gas chromatography - mass spectrometry of hop constituents, 3068.

Shchegrov, L. N. See **Pechkovskii, V. V.,** 1360.

Shchemeleva, G. G. See **Kovalenko, P. N.,** 782.

Shchepko, V. I. See **Cherkesov, A. I.,** 2621.

Shcherbakova, L. P. See **Chaikin, P. I.,** 795.

Shcherbov, D. P. Fluorescence analysis of inorganic substances, 1955.

Shead, A. C. Preparation of crystals of cantharidin suitable for profile-angle measurement: optimum time - temperature sublimation, 469.

Sheimukhametova, A. A., and **Toptygina, V. I.** Determination of humus by using a glycerol bath, 3099.

Shelepin, O. E. See **Shaova, L. G.,** 570.

Shellard, E. J., and **Alam, M. Z.** Quantitative determination of some *Mitragyna* oxindole alkaloids after separation by TLC. IV. Comparison of u.v. spectrophotometry, colorimetry and densitometry for determination of oxindole alkaloids in plant material, 1665.

Shell Internationale Research Maatschappij N.V. Detection of odorants in natural gas or petroleum gas, 950. GLC separation by using columns of different selectivities, 1869. Determination of combined nitrogen in petroleum hydrocarbons, 3563.

Shemet, V. V. See **Belyaev, Yu. I.,** 3281.

Shemyakin, F. M. See **Krasnova, M. A.,** 3783, and **Zelenina, E. N.,** 3586.

Shemyakina, M. A. See **Bagdasarov, K. N.,** 3300.

Sheppard, A. J., LaCroix, D. E., and **Prosser, A. R.** GLC separation of vitamins D_2 and D_3 as isotachysterols D_2 and D_3, 2991.

— See also **Prosser, A. R.,** 2368.

Sherbon, J. W., and **Luke, H. A.** Collaborative study of the dye-binding method for determination of protein in chocolate-milk drinks, cultured buttermilk and half-and-half cream, 3034.

Sherken, S. Rapid near-i.r. spectrophotometric determination of meprobamate in meprobamate tablets, 1696.

Sherma, J., and **Lowry, J. D.** Solubilisation chro matography on macro-reticular ion-exchang resin, 3500.

— See also **Strain, H. H.,** 3717.

Sherman, E. O., jun., and **Olson, D. C.** Purificatio of acetonitrile for voltammetry, 2521.

Sherman, R. M. See **Broderick, E. J.,** 558.

Sherman, W. R., and **Robins, E.** Fluorescence o substituted 7-hydroxycoumarins, 1105.

Sherwood, R. J., and **Stevens, D. C.** Phosphor-film technique to determine the α- and β-activity o individual particles on air-sample filters, 3121.

Shesterova, I. P., Dzhiyanbaeva, R. Kh., Talipov Sh. T., and **Kostylev, N. F.** Absorptiometri determination of cobalt, 187.

Sheth, P. V. See **Shah, Rasiklal C.,** 1001.

Shevchenko, F. D., and **Kuzina, L. A.** Extraction c strontium, 2005.

Shevchuk, I. A., and **Degtyarenko, L. I.** Photometri determination of micro amounts of high-molecula weight organic bases by a base-exchange proces 3525.

Shevtsov, N. A. See **Startsev, V. N.,** 3391.

Sheyanova, F. R. See **Korenman, I. M.,** 1470, 220 3288.

Shibaeva, N. P. See **Karalova, Z. K.,** 2652.

Shibata, S. See **Furukawa, M.,** 3311.

Shibazaki, T., and **Koibuchi, M.** Indirect spectro photometric determination of mercury in mixe preparations of organomercury compounds, 495

Shields, R. See **Davies, M. W.,** 2891.

Shields, W. R. See **Catanzaro, E. J.,** 2055.

Shigematsu, T., Matsui, Masakazu, Munakata, M and **Sumida, T.** Co-precipitation and spectr photometric determination of iron as 8-hydrox quinolinate, 168.

— **Matsui, Masakazu,** and **Utsunomiya, K.** GL of rare-earth-metal chelates of pivaloyltrifluor acetone, 90.

— and **Tabata, T.** [Annual review, 1968]—Fluor metric analysis, 1948.

— **Tabushi, M., Matsui, Masakazu,** and **Munakat M.** Co-precipitation and spectrophotometr determination of uranium as the dibenzo methane chelate, 3371.

Shih, T.-B. See **Hsiu, H.-C.,** 1662.

Shijo, Y., and **Takeuchi, T.** Spectrophotomet determination of aluminium with Chrome Azur S and cetyltrimethylammonium chloride, 2014.

Shikiba, Y. See **Ogura, H.,** 1125.

Shine, R. J. See **Klayman, D. L.,** 1459.

Shinh, N. M. See **Nguyen Mong Shinh.**

Shipton, J., and **Last, J. H.** Determination volatile reducing substances and off-flavours frozen peas, 3808.

Shiraiwa, T., and **Fujino, N.** Theoretical correcti for co-existing elements in X-ray fluorescen analysis of alloy steel, 1310. X-ray fluorescen micro-analyser, 1310.

Shiryaeva, M. B., Salmin, Yu. P., and **Sergeeva, T.** Neutron-activation determination of tantalum minerals with cation-exchange removal of int fering elements, 3417.

Shishkin, E. A. See **Institut Metallofiziki Akaden Nauk Ukrainskoi SSR,** 1934.

Shishkov, A. N. See **Busev, A. I.,** 1991.

Shishoo, C. J. See **Devani, M. B.,** 2355.

Shitikova, N. L. See **Klimova, V. A.,** 2151.

Shleina, T. T. See **Frolova, Z. S.,** 875.

Shlenskaya, V. I., and **Khvostova, V. P.** Spect photometric determination of osmium^{VIII} w thiocyanate, 2135.

lionskaya, M. A., and **Nogteva, K. G.** Determination of ethoxy-groups in cellulose ethers, 3583.
lyagin, K. N. Apparatus for centrifugal chromatography on paper, 3930.
lyk, A. A. Spectrophotometric determination of chlorophylls *a* and *b*, 1076.
makotina, Z. V., and **Uksusnikov, V. I.** Amperometric titration of serum mercapto-groups, 1060.
matko, B. A. See **Ivanovskii, M. N.**, 45.
melev, A. A. See **Dvorkin, V. Ya.**, 2912.
monin, L. I., Mager, E. V., and **Dronova, V. P.** X-ray - radiometric determination of zinc and iron in pyritic ores, 2007.
naiderman, S. Ya. See **Chernaya, N. V.**, 3458.
or, N. A. See **Kristalev, P. V.**, 812.
ornikov, S. I. Simultaneous determination of zirconium and titanium in titanium - zirconium ores by γ-activation, 2062.
— See also **Berzin, A. K.**, 2061.
ostak, F. See **Kupec, J.**, 1261.
ostenko, A. G., Zagorets, P. A., and **Dodonov, A. M.** GLC analysis of products obtained from the reaction between phosphorus trichloride and olefins, 2785.
otton, E., and **Davis, S. S.** Use of the Coulter counter for particle size analysis of emulsion systems, 3258.
otwell, O. L., Shannon, G. M., Goulden, M. L., Milburn, M. S., and **Hall, H. H.** Factors in oats that could be mistaken for aflatoxins, 1781.
areiberg, G. L. See **Belova, T. A.**, 2922.
arewsbury, D. D. Precision automated absorption spectrophotometry, 2507.
hrivastava, K. C. See **Orten, J. M.**, 2294.
hroff, A. P., and **Huettemann, R. E.** GLC determination of anagestone acetate in fertility-control tablets, 1708.
htan', A. S. See **Kartashev, E. R.**, 2616.
htipel'man, Zh. V. Spectrographic determination of oxides of aluminium and iron in charges and slimes of alumina production, 764.
huba, I. D., Razumova, G. N., and **Vasil'ev, I. Ya.** Removal of the base material in the neutron-activation analysis of high-purity germanium, 2049.
— See also **Vasil'ev, I. Ya.**, 3355.
hubiak, P. See **Porcaro, P. J.**, 2382.
hukla, G. C., and **Singh, M.** Photo-electric colorimetric determination of nitrate-nitrogen in soil, 1783.
hukurov, Z. Sh. See **Sadykov, A. S.**, 3772.
hul'man, A. S. See **Pechkovskii, V. V.**, 1360.
hulunova, K. N. See **Kreshkov, A. P.**, 3518.
human, H. See **Wilderman, M.**, 3057.
humilina, N. A. See **Kozlova, M. N.**, 2712.
humova, T. I., and **Blyum, I. A.** Photometric determination of low concentrations of tin in minerals and ores with butylrhodamine S, 2051.
hushunova, A. F. See **Vyakhirev, D. A.**, 1468.
hvangiradze, R. R. See **Vysokova, I. L.**, 17.
hvartskop, V. V. See **Khadeev, V. A.**, 3438.
hvetsova, L. N. See **Bulygin, B. M.**, 2243.
iddiqui, M. A. See **Ashraf, M.**, 2778.
idel'kovskaya, F. P. See **Gal'pern, G. M.**, 961.
idorenko, V. I. Amperometric determination of chlorides in desalted petroleum, 303.
ie, S. T., Bleumer, J. P. A., and **Rijnders, G. W. A.** Gas-chromatographic separation of inorganic chlorides and its application to metal analysis. III. Determination of silicon and tin in non-ferrous alloys, 792.
iegfried, C. M., and **Elliott, W. H.** TLC separation of bile acids, 2313.
Siekierska, K. E., and **Fenger, J.** Separation of iron^{III}-59 and iron^{II}-59 in neutron-activated crystalline ferrous compounds, 2733.
— See also **Larsen, E.**, 272.
Siemens Akt.-Ges. Arrangement for setting the flow of carrier gas in gas-chromatography apparatus, 3167.
Siemroth, J., and **Hennig, I.** Paper-chromatographic determination and separation of azo-derivatives of chromotropic acid used as analytical reagents, 3582.
Sikorska-Tomicka, H. Application of 2-thiobarbituric acid to the detection and determination of metals. I. Application to iron^{III}, 169. Thiolactams as reagents in quantitative analysis. III. Analytical application of a bromobismuthite - thiocaprolactam complex, 821.
Silberman, L. See **Schiopu, M.**, 2929.
Silva, C. M. See **Lima, F. W.**, 1824.
Silva, D. M. See **Amorim, H. V. de**, 3812.
Silva Cavaleiro, J. A. da. See **Cavaleiro, J. A. da S.**
Silverio, M. J., and **Freire, M. de L.** Complexometric determination of calcium and magnesium in dolomites, 748.
Silverman, P. See **Rinderknecht, H.**, 2956, 3735.
Silvestru, S. See **Bauer, M.**, 1108.
Simanek, V. See **Stuzka, V.**, 2541.
Simion, S. See **Balica, G.**, 3515.
Simionescu, C. I. See **Denes, F.**, 230.
Simionovici, R., Aftalion, H., and **Albert, F. M.** Determination of benzhexol hydrochloride in the pure product and in tablets, 3770.
— See also **Albert, F. M.**, 2376, **Arizan, S.**, 3781, and **Dimofte, L.**, 2160.
Simkova, M. Determination of copper in biological material by neutron activation, 3610.
Simler, J. See **Wood, E. J.**, 1837.
Simmonds, P. G. See **Price, J. G. W.**, 616.
Simon, F. O., and **Millard, H. T., jun.** Determination of gold in rocks by neutron-activation analysis using fire-assay pre-concentration, 1999.
— See also **Rowe, J. J.**, 3330.
Simon, H., Guenther, H., Kellner, M., Tykva, R., Berthold, F., and **Kolbe, W.** Methods for determination of radioactive and stable isotopes of hydrogen, carbon, nitrogen and oxygen, 1313.
— **Rauschenbach, P.**, and **Frey, A.** Distinction of fermentation alcohol and acetic acid from synthetic materials from the carbon-14 content, 531.
Simon, J. See **Erdey, L.**, 3321.
Simon, R. K., Christian, G. D., and **Purdy, W. C.** Coulometric determination of glucose in human serum, 1564.
Simon, W. Use of automation in elucidation of the structure of organic compounds, 1947.
— See also **Perkin-Elmer Ltd.**, 1847.
Simonian, J. V. Determination of copper in textiles by atomic-absorption spectrophotometry, 325.
Simonianova, E. See **Rybak, M.**, 446.
Simonova, L. N. See **Busev, A. I.**, 146, 832, 2069.
Simonova, L. V. See **Karyakin, A. V.**, 1270.
Simons, J. P. Dewar vessel - cell assembly for spectroscopic measurements at controlled temperatures down to −196°, 4001.
Simpson, D. Determination of residual monomers in styrene-based polymers, 2839.
Simpson, T. H. See **Osborn, R. H.**, 1061, 2456.
Simpson, W. J., and **Tuba, J.** Investigation of fluoride concentration in the milk of nursing mothers, 3620.
Simson, T. F. See **Ospanov, Kh. K.**, 732.
Singer, L., and **Armstrong, W. D.** Determination of fluoride in bone with the fluoride-specific electrode, 364.

Singerman, A. Analysis of biological material in industrial toxicology, 1947.
Singh, B. N. See **Bhatnagar, R. M.,** 3844.
Singh, G. See **Kar, K. R.,** 1361, 1400.
Singh, M., and **Sugden, J. K.** Developments in pH indicators, 2540.
— See also **Shukla, G. C.,** 1783.
Singh, N. P. See **Prasad, S.,** 2024.
Singh, Ramesh P. See **Garg, B. S.,** 2060, 3358, and **Katyal, M.,** 2679, 2734.
Singh, Rudra P., Chickerur, N. S., and **Narasaraju, T. S. B.** Complexometric determination of calcium and phosphorus in synthetic hydroxlapatite, 749.
Singhal, G. K., and **Tandon, K. N.** Studies on metallochromic indicators. III. Haematoxylin and haematein, 2542.
Singhal, K. C., Banerji, A. C., and **Banerjee, B. K.** Indirect determination of phosphorus by atomic-absorption spectrophotometry, 3842.
Sinha, B. C., Das Gupta, S., and **Kumar, S.** Titrimetric determination of phosphate, 2066.
Sinitsyna, L. G. See **Degtyareva, O. F.,** 95.
Sinnema, Y. A. Colorimetric determination of bicarbonate in plasma or serum, 3614.
Sinyakova, S. I. Polarographic and amperometric methods: review, 3.
— See also **Demkin, A. M.,** 3442.
Sipos, A. See **Soo, A.,** 917.
Sipos, B. See **Sajo, I.,** 2766.
Sipos, L., and **Branica, M.** Polarographic determination of ratio of oxygen to uranium in uranium oxides, 101.
Sissons, D. J., Telling, G. M., and **Usher, C. D.** GLC determination of organochlorine pesticides in vegetables, 524.
Sitte, R. See **Moeken, H. H. P.,** 1329.
Siutowicz, K. See **Alchimowicz, J.,** 3574.
Sivakova, R. N., and **Lyubomilov, V. I.** Determination of but-2-ene-1,4-diol and but-2-yne-1,4-diol in their mixture, 2163.
Sividova, S. N. See **Kiryushov, V. N.,** 3232.
Sjoevall, J. See **Eneroth, P.,** 3681.
Skalka, M. Gel-filtration behaviour of heparin in solutions of various ionic strengths, 376.
Skelton, G. S. Column chromatography of papaya proteinases on hydroxylapatite, 2972.
Skinner, H. C. W. X-ray diffraction analysis techniques for monitoring composition fluctuations in apatite minerals, 1314.
Sklarny Kavalier, N. P. Distillation flask, 3912.
Skogerboe, R. K., Kashuba, A. T., and **Morrison, G. H.** Evaluation of the sources of error in spark-source mass spectrometry, 2516.
— See also **Bedrosian, A. J.,** 1533, and **Hay, D. R.,** 3431.
Skorko-Trybula, Z., and **Debska, B.** Extraction and analytical application of complexes of 4-methoxybenzothiohydroxamic acid with cobalt^{II}, manganese^{III} and iron^{III}, 2567.
Skornyakova, L. V. See **Podchainova, V. N.,** 70.
Skorokhod, E. G. See **Pilipenko, A. T.,** 2123.
Skorokhod, O. R. See **Gruchenkov, R. G.,** 2537.
Skotnikov, S. A. Spectrographic determination of nitrogen in metal foil, 3286.
Skou, C. See **Guilbault, G. G.,** 447.
Skrabka-Blotnicka, T. Determination of *N*-terminal amino-acids in proteins and peptides with 3-fluoro-4-nitropyridine *N*-oxide, 2932.
Skrinska, E., and **Kyutukchiev, B.** Determination of collagen in tissue, 3713.
Skvortsov, N. P. See **Buzlanova, M. M.,** 2587.
Skvortsova, A. B., Zelenetskaya, A. A., Korchagina, T. N., and **Petrova, L. N.** Determination of ketones in the presence of ketals, 247.
Slama, Z. Determination of formaldehyde in th presence of monosaccharides, 2794.
Slanski, J. M., and **Moshy, R. J.** Separation an quantitative analysis of polyhydric alcoho humectants in tobacco products, 1559.
— See also **Jacin, H.,** 1013, 1600, 3556.
Slavin, S., and **Slavin, W.** Determination o lithium in serum and urine, 982.
Slavin, W. See **Slavin, S.,** 982.
Slawinski, A. K. See **Dalziel, J. A. W.,** 868.
Slickers, K. See **Hoeller, P.,** 177.
Sliepcevic, Z. K. See **Cernicki, B. K.,** 329.
Sliwiok, J. Application of fuchsine dyes in detectio of higher fatty alcohols in TLC, 235. Applicatio of fuchsine dyes in detection of higher fatty acid in TLC, 249. Application of fuchsine dyes i detection of pesticides in TLC, 546. Applicatio of fuchsine dyes in detection of esters of phthali acid in TLC, 2197. Application of fuchsine dye in detection of barbituric acid derivatives i TLC, 2370.
Slovak, Z., and **Borak, J.** Analysis of sulphonaz III and some analogous bis-azo-derivatives o chromotropic acid. I. Coulometric titanimetri determination of azo-groups, 227.
— **Fischer, J.,** and **Borak, J.** Spectrophotometri study of reaction of barium with sulphonazo II 3338.
Slover, H. T., Valis, R. J., and **Lehmann, J.** GL separation of tocotrienols: validation of predicte retention data, 3601.
Slump, P., and **Verbeek, A. M.** Simplification o sample loading in continuous automated amino acid analysis, 1052.
Smagunova, A. N. See **Losev, N. F.,** 3977.
Smart, J. See **Parsons & Co. Ltd., Sir Howar Grubb,** 3632.
Smeenge, F. See **Labruyere, B.,** 520.
Smink, J. See **Wood, E. C.,** 545.
Smirnov, L. A. See **Denisov, E. P.,** 1962.
Smirnova, E. V. Influence of certain substances o the energy of irradiation of the spark lines of th rare-earth metals, 89.
Smirnova, G. M. See **Berkovich, M. T.,** 2012.
Smirnova, K. A. See **Vysokova, N. N.,** 3339.
Smith, A. F. See **Cohen, I. C.,** 3861.
Smith, A. M. See **Kirkbright, G. F.,** 813, 1402.
Smith, C. J. See **Kelleher, P. C.,** 418.
Smith, C. T. Microscopical identification of chlo tetracycline and oxytetracycline in feedin stuffs, 3110.
Smith, D., and **Cromey, P. R.** Bakeable quadrupo mass spectrometer, 1908.
Smith, D. E. See **Brown, E. R.,** 4021.
Smith, E. M. See **Coutts, R. T.,** 1485.
Smith, George F. Role of 70 to 80% perchloric ac as oxygen donor and the oxidation potentia made available, 2538.
Smith, Gerald F., and **Murray, M.** Direct spectr photometric determination of 3-phenyl-2-thi hydantoin derivatives of amino-acids aft separation by TLC on silica gel, 1606.
Smith, G. W., and **Becker, D. A.** Preparation of NBS biological reference standard for trac element analysis, 1.
Smith, H. See **Lenihan, J. M. A.,** 1, and **Nixon, G.** 1.
Smith, I., Lightstone, P. J., and **Perry, J. D.** Sepa tion of human-tissue alkaline phosphatases electrophoresis on acrylamide disc gels, 449.
Smith, I. D. A. Thermal analysis of polymers, 15
Smith, J. F., Hultz, J. A., and **Orning, A. A.** Sam ling and analysis of flue gas for oxides of sulph and of nitrogen, 1220.

th, J. R. L., and **Waddington, D. J.** Gas-
aromatographic analysis of aliphatic amines
sing aromatic polymers, 265. Gas-chromato-
raphic analysis of aliphatic alcohols, diols and
thers using aromatic polymers, 3501.
th, K. E., and **Frank, C. W.** Determination of
on in copper - aluminium alloys by atomic-
bsorption spectrophotometry: usable resonance
nes of iron, 3327.
See also **Huber, C. O.**, 1457.
ith, L. See **Chissick, S. S.**, 662.
th, L. H., jun. See **Williams, H. E.**, 385.
ith, L. L. See **Lier, J. E. van**, 3673.
ith, P. See **Coward, R. F.**, 389.
ith, P. B. See **Greenfield, S.**, 1895.
ith, S. B., jun., Blasi, J. A., and **Feldman, F. J.**
nalysis of zinc die-cast by atomic-absorption
pectrophotometry with internal standard, 3340.
ith, S. J. See **Beckstead, H. D.**, 2377.
ith, W. See **Leech, R. M.**, 1643.
ith, W. T., jun., Wagner, W. F., and **Patterson,**
. M. [Analytical reviews, 1968]—Volumetric
nd gravimetric analytical methods for organic
ompounds, 677.
See also **Wu, A.**, 3522.
olkova, E. See **Pacakova, V.**, 3499.
yth, J. J. See **Elmore, D. T.**, 1102.
ll, R. P. Determination of phenaglycodol, 1695.
sarenko-Los'eva, L. P., Oster, N. R., and **Ismailov,**
M. N. Quantitative evaluation of fatty acids on
paper chromatograms, 900.
der, F., and **Cress, E. A.** Application of thin-
ayer chromatographic zonal carbon-14-profile
cans to analysis for urinary constituents derived
rom lipids, 2302.
See also **Wood, Randall**, 403.
der, L. R., and **Buell, B. E.** Nitrogen and
xygen compound types in petroleum: general
eparation scheme, 2216.
Buell, B. E., and **Howard, H. E.** Nitrogen and
xygen compound types in petroleum: total
nalysis of a 700° to 850° F distillate, 2217.
dman, D. R. See **Whereat, A. F.**, 3657.
er, H. A. See **Toal, J. N.**, 1085.
on, L. E. See **Wickersheim, K. A.**, 776.
ic, H., and **Andrec, K.** Separation and deter-
nination of starch and glucose, 1018.
and **Belic, I.** Separation and identification of
teroids produced by fermentative oxidation of
rogesterone, 1313.
ieta Italiana per lo Studio delle Sostanze Grasse.
See **Stazione Sperimentale Oli e Grassi**, 1174, 3817.
iete d'Instrumentation Schlumberger. Apparatus
or gas analysis, 1221.
iety for Analytical Chemistry. Determination of
in in organic matter. II. Amounts of tin from
30 to 150 μg, 2397. Determination of fur-
zolidone in feeds, 2423. Nitrogen factor for
lood, 3021. Nitrogen factor for barley used as
iller in meat products, 3022.
zewinski, E., Bieganowska, M., and **Ciszewska, M.**
Paper-partition chromatography of very weak
ases in systems of the type weakly polar solvent -
ydrochloric acid, 3561.
See also **Przeszlakowski, S.**, 3274.
te, D. de. See **Lutz, G. J.**, 724, and **Neve, R. de,**
113.
-Win. See **Fleet, B.**, 567.
ak, L. GLC determination of small amounts of
imethylformamide in n-alkanes from gas oil,
3564.
olov, D. N., Baidarovtseva, M. A., and **Vakin,**
N. A. GSC separation of metal vapours, 2611.

Sokolov, V. P., Osipov, O. A., and **Kogan, V. A.** Application of GLC to investigation of intermolecular interaction between Schiff bases and organic compounds, with Schiff bases as stationary phases, 3955.
Sokolova, E. V., and **Cherkasskii, A. A.** Paper chromatography of 1-aminoanthraquinonemonosulphonic acids and their bromination products, 1504.
Sokolova, L. S. See **Kovalenko, P. N.**, 782.
Sokolovich, V. B., Lel'chuk, Yu. L., and **Drelina, O. A.** Absorptiometric determination of phosphorus in high-purity tin as molybdenum blue, 117.
— See also **Lel'chuk, Yu. L.**, 116.
Sokolowska, R. Methods for determination of phenols: application to evaluation of commodities made of plastics for toxicity. I, 3594.
Solans Huguet, J., and **Traveria Cros, A.** Application of X-ray fluorescence spectrography to quantitative analysis of steel, 2741.
Soldi, T. F. See **Fulle Soldi, T.**
Solinas, M. Determination of peroxides in olive oil, 534.
Solomon, J. Flash injector for gas chromatography of organophosphorus insecticides, 3160.
Solonar', A. S. See **Feoktistov, L. G.**, 2157, and **Lyalikov, Yu. S.**, 550.
Solvay et Cie. Apparatus for continuous detection of water in organic liquids, 3484.
Somers, E. See **Meranger, J. C.**, 3073.
Somers, P. J. See **Barker, S. A.**, 1015.
Sommer, L. See **Ivanov, V. M.**, 2153.
Songina, O. A., Kemeleva, N. G., Egorova, L. G., and **Lebedyantseva, A. I.** Determination of iron^{II} in chromite ores, 2737.
— See also **Bessarabova, I. M.**, 3384, and **Milyaeva, N. M.**, 1983.
Sonntag, F. Gas chromatography of products of pyrolysis of polymers: experimental comparison of different techniques. I, 1513; II, 2842.
Soo, A., Varhelyi, C., and **Sipos, A.** α-Dioxime complexes of transition metals. XXIV. Paper- and thin-layer chromatographic study of cobalt^{III} - dioxime chelates, 917.
Soroczynska, T. See **Deryng, J.**, 1150.
Sorokina, K. P. See **Lashko, N. F.**, 3452.
Soulages, N. L. Analysis of lead anti-knock additives by GLC, 2826.
Sourisse, C. See **Kulbicki, G.**, 106.
Sousa Lechner, M. C. de. See **Vendrely, R.**, 1089.
Southam, R. M. See **Campbell, N. C. G.**, 230.
Southern Society for Paint Technology. Determination of non-volatile content of liquid coatings, 971.
Southworth, B. C. See **Jones, L. N.**, 1141.
Souza, T. L. C. de, and **Kerbyson, J. D.** Spectrophotometric determination of antimony in arsenic and arsenic^{III} oxide, 2068.
Soyannwo, M. A. O. See **Oreopoulos, D. G.**, 1540.
Spach, M. L. See **Fransson, L.-Å.**, 1570.
Spalding, T. R. See **Abraham, M. H.**, 3342.
Spandrio, L., Tampalini, L., and **Gerola, M.** Enzymic micro-determination of lactic acid in blood, 1577.
Spano, P. F. See **Tagliamonte, A.**, 1023.
Spanyar, P., and **Petro, M.** Determination of ascorbic acid derivatives and nitrites in the presence of each other, 2989. Simultaneous determination of ascorbic acid derivatives and nitrites in meat-pickling mixtures, 3023.
Sparks, H. E. Injection technique for calibration in quantitative gas chromatography, 3944.
Spatzek, H. See **Schroll, E.**, 1386.

Speakman, F. P., and **Waring, C.** Three-electrode thermionic gas chromatography detector selective for organophosphorus compounds, 1876.

— See also **Pye Ltd.,** 1254.

Spears, L. G., and **Hackerman, N.** Low-temperature i.r. cell for studies using anhydrous hydrogen fluoride as solvent, 1901. Analysis of mixtures of fluorine, hydrogen fluoride, nitrogen trifluoride, *trans*-dinitrogen difluoride and dinitrogen tetrafluoride by GLC, 2724.

Specker, H. See **Kettrup, A.,** 1323.

Speecke, A. See **Corte, F. de,** 2561, and **Winkel, P. van den,** 1, 3277.

Speed, D., and **Richardson, M.** Chromatographic methods for isolation and identification of products of choline oxidation, 3689.

Spencer, D. H. T. See **Leppard, C. J.,** 1944.

Spencer, H. H. See **Haywood, B. J.,** 445.

Spencer, J. H., Cape, R. E., Marks, A., and **Mushynski, W. E.** Determination of pyrimidine nucleotide clusters by a single spectrophotometric measurement, 2955.

Spencer, M. R. See **Lee, K. H.,** 2374.

Spevak, A. See **Matrka, M.,** 924, 3539.

Spichale, W. See **Koehler, P.,** 2678.

Spielman, L., and **Goren, S. L.** Improved resolution in Coulter counting by hydrodynamic focusing, 1942.

Spier, H. L. See **Pacor, P.,** 1496.

Spies, J. R. Determination of tryptophan in maize, 2415.

Spijkerman, J. J. See **DeVoe, J. R.,** 677, and **Travis, J. C.,** 1311.

Spillane, W. J., and **Scott, F. L.** Separation of *o*-amino- and *p*-amino-benzenesulphonic acids using an ion-exchange resin, 287.

Spini, G. See **Bertoglio Riolo, C.,** 1339.

Spink, C. H. See **Spink, M. Y.,** 237.

Spink, M. Y., and **Spink, C. H.** Thermometric analysis of mixtures of water and water-miscible organic compounds, 237.

Spirichev, V. B. See **Blazheevich, N. V.,** 1546.

Spitz, H. D. Flat *vs.* curved aluminium planchets for X-ray fluorescence spectrometry, 2485.

Spitz, J., and **Uny, G.** Ultrasonic nebulisation applied to atomic-absorption spectrophotometry, 3211.

— See also **Tran Van Danh,** 3464, and **Uny, G.,** 744.

Spitzy, H. See **Ortner, H.,** 1347, 2575.

Spolter, L. See **Aures, D.,** 1313.

Sprinkle, T. J. See **Greer, M.,** 3684.

Spronk, N. Nuclear activation in the animal sciences, 1.

Sprouse, G. D., and **Kalvius, G. M.** Mossbauer effect by recoil implantation through vacuum, 1311.

Spruill, C. K., jun. Experimental sampling of bulk feeding-stuffs: comparison of the Virginia feed trier and the Missouri D tube, 3104.

Spryskov, A. A., and **Kozlov, V. A.** GLC determination of isomeric aromatic sulphonic acids and their derivatives, 2813.

— See also **Potapova, T. I.,** 2814.

Sreekumaran, C. See **Folsom, T. R.,** 1207.

Srinivasan, K., and **Rechnitz, G. A.** Activity measurements with a fluoride-selective membrane-electrode, 157.

Srivastava, S. N. See **Lal, S.,** 3302.

Stabryn, J. Determination of traces of copper in activated charcoal by anodic-stripping voltammetry, 2663.

Stacey, M. See **Barker, S. A.,** 1015.

Stachnyk, O. See **Kuksis, A.,** 3668.

Stachowski, M. See **Uchman, M.,** 2851.

Stadnikova, L. G. See **Nikolaev, A. V.,** 706.

Stafford, C., Morgan, T. D., and **Brunfeldt, R.**
All-glass heated inlet for a mass spectromete
1910.

Stahl, E. The TAS technique: a thermal micr
method for separation of volatile material f
application to thin layers, 3935.

— and **Fuchs, J.** Characterisation of pharma
copoeial drugs by TLC. III. Direct applicatio
to the plate of active constituents of drugs co
taining essential oils, 3742.

Stajer, G. See **Vinkler, E.,** 1690.

Stakheev, Yu. I. See **Vul'fson, E. K.,** 794.

Staley, H. B. See **David, D. J.,** *Book*: Sept.

Stallard, R. W. See **McEwen, C. R.,** 2263.

Stamberg, J. See **Kupec, J.,** 1261.

Stamey, T. A. See **Fjeldbo, W.,** 3647.

Stamm, D. Control card techniques in quali
control compared with other statistical method
1312.

Stancher, B. See **Calzolari, C.,** 1500.

Standard Oil Co. Determination of nitrogen
mixtures of organic compounds, 3487.

Standley, K. J., and **Vaughan, R. A.** Electron sp
relaxation phenomena in solids, *Book*: Oct.

Stanescu, G., and **Keul, M.** Infra-red spectrophot
metric determination of 1-naphthol and of
naphthyl carbonate in admixture in toluen
3551.

Stanisav, C. Iodimetric determination of hydrog
peroxide in the presence of iron^{III}, 720.

Stankova, O. See **Dokladalova, J.,** 246.

Stanley, G. See **Murray, K. E.,** 1161.

Stanley, J. B. See **Moseley, P. B.,** 3600.

Stanovick, R. P. See **Chin, W.-T.,** 919.

Stanton, D. A. See **Basson, W. D.,** 363.

Stanton, R. E., and **Hardwick, A. J.** Determinati
of molybdenum in milk with zinc dithiol, 500.

Starchik, L. P. See **Mikhailov, G. I.,** 2576.

Starkweather, W. H. See **Haywood, B. J.,** 445.

Starr, R. I., and **Johnsen, R. E.** Laboratory det
mination of rate of volatilisation of insectici
from plants, 2425.

Startsev, V. N., Koz'min, Yu. A., Shevtsov, N.
and **Krylov, E. I.** Separation of titanium fr
niobium and tantalum by extraction, 3391.

Stary, J., and **Ruzicka, J.** Metal chelate exchan
in the organic phase. II. Extraction and e
change constants of dithizonates and dieth
dithiocarbamates, 2547.

Stauffer, L. J. See **Wojtowicz, P. F.,** 1725.

Stazione sperimentale Oli e Grassi and **Soci**
Italiana per lo Studio delle Sostanze Gras
Bibliography of fats and their derivatives. X
1174; XXII, 3817.

Steagall, E. F. Titration of calcium and magnesi
with EDTA: determination of calcium in cann
vegetables, 3045.

Stedman, R. L., Miller, R. L., Lakritz, L., a
Chamberlain, W. J. Method for concentrat
polycyclic aromatic hydrocarbons in cigaret
smoke condensate, 373.

Steele, J. W. See **Bolan, M.,** 3650.

Steere, R. L., and **Davis, R. E.** Liquid-gradient z
electrophoresis in removable capsules, 626.

Stefan, V. See **Dimofte, L.,** 2160.

Stefanac, Z. See **Blenovic-Solter, A.,** 13.

Stefanov, K. See **Popov, A.,** 953.

Stefanovic, D. K., Vajgand, V. J., and **Kiss,**
Amperometric titration with an a.c. osci
polarograph, 4023.

Stefek, S. See **Zahradnicek, M.,** 8.

Steffensen, D. M. See **Gray, R. H.,** 3975.

Stegbauer, H. See **Rick, W.,** 1313.

gemann, H. Primer-inclusion technique for detection of down to one picogram of enzymes after polyacrylamide electrophoresis: application to phosphorylases, 1313.

ggerda, J. J. See **Linden, J. G. M. van der,** 1388.

hlik, G. Continuous-elution system for ion-exchange chromatography with use of linear gradients: separation of nucleotides, 1084.

ein, R., Eisenberg, W. V., and **Brickey, P. M., jun.** Staining technique to differentiate insect fragments, bird feathers and rodent hairs from plant tissue, 1717.

ein, W. Hydrophilisation process for separation of fatty materials, 3079.

einberg, M. P. See **Toledo, R.,** 3794.

einer, J.-P. See **Renous, D.,** 543.

einke, G., and **Schmidt, F.** Use of TLC in pharmaceutical laboratories: review, 3740.

einnes, E. See **Brunfelt, A. O.,** 811, 1401, and **Michelsen, O. B.,** 2589.

elle, J. E. van. See **Geurts, J. J.,** 1183.

elzer, H. See **Schmidt-Hebbel, H.,** 3074.

en'gach, I. N. See **Berezin, I. A.,** 805.

enger, V. A. See **Dow Chemical Co.,** 3885.

epanets, O. V. See **Alimarin, I. P.,** 1374.

ephanenko, B. N. See **Suzdaleva, N. I.,** 377.

ephen, A. M. See **Nurok, D.,** 257.

ephen, W. I. See **Majer, J. R.,** 708, and **Salam Khan., M. A.,** 689.

ephens, F. B. See **Perone, S. P.,** 1924.

epin, B. D. See **Serebrennikova, G. M.,** 2584.

erbikova, J. See **Pristoupil, T. I.,** 1615, 3722.

erescu, M. See **Dimofte, L.,** 927, 2160.

erk, L. See **Ohme, R.,** 261.

erling, K. J., and **Haines, R. J.** Vapour cell for use in i.r. spectrometry, 3222.

erlinski, S. Determination of manganese, silver, samarium, indium and germanium in copper ores and concentrates by non-destructive activation analysis, 3328.

ern, D. J. See **Johnston, K. M.,** 430.

ernkell, S. See **Jackman, L. M.,** *Book*: Nov.

tevens, D. C. See **Sherwood, R. J.,** 3121.

evens, P. J. TLC of synthetic steroids on silica gel impregnated with silver nitrate, 3777.

tevens, R. E. Organic chemical microscopy: monograph, 207.

tevens, R. H. Noise reduction in flame ionisation-type liquid-chromatography monitors: development of method for sample transport, 3149.

tevens, T. S., and **Lott, J. A.** Chromatographic resolution of racemic mandelic acid on microporous resin, 1471.

tevenson, C. E., and **Comer, I.** Semi-automated assay for simultaneous determination of dextropropoxyphene hydrochloride and paramethasone acetate in coated single tablets, 2375.

tevenson, F. D. See **Conway, J. E.,** 138, and **Lorine, D. J.,** 3415.

tewart, W. B. See **Brion, C. E.,** 141.

teyert, W. A., and **Daybell, M. D.** Temperature control in Mossbauer effect studies, 1311.

tiborova, J. See **Krepinsky, J.,** 1704.

till, E. Extrapolated end-points in photometric titrations, 586.

till, J. E., and **Chirnside, R. C.** Thermohygrometric analysis for water in minerals, 3480.

tine, C. M. See **Bradley, R. L., jun.,** 2401.

tirton, A. J. See **Cordon, T. C.,** 3575.

tock, A. See **Pfleiderer, G.,** 3616.

tock, J. T. [Analytical reviews, 1968]—Amperometric titrations, 677.

tockton, C. A. See **Frei, R. W.,** 2566.

Stoessel, J. E. See **Goodspeed, H. T.,** 697.

Stoffelsma, J., and **Pypker, J.** Identification of constituents of roasted coffee, 528.

Stoicovici, S. See **Uray, I.,** 3869.

Stolman, A. Progress in chemical toxicology. Vol. III, *Book*: Nov.

Stoloff, L. See **Beckwith, A. C.,** 1737.

Stolterfoht, N. See **Jacobi, W.,** 4039.

Stolyarov, K. P., Pogodaeva, V. G., and **Kuz'minova, N. E.** Spectrophotometric determination of tin with morin, 797.

Stone, J. A. See **Pillinger, W. L.,** 1311.

Stone, R. W. See **Woodriff, R.,** 1314, 3997.

Storherr, R. W., and **Watts, R. R.** Collaborative study of the ethyl acetate extraction, sweep co-distillation clean-up and GLC determination of organophosphorus pesticides, 1808.

Stork, H., and **Schmidt, F. H.** Enzymic determination of blood sugar in capillary blood without deproteinisation or centrifugation, 2899.

Stoten, A. Micro-determination of creatinine by using resin to remove interfering substances, 1048.

Stott, A. W. Paper chromatography of serum phenolic acids, 1578.

Stradyn', Ya. See **Vegner, V.,** 2816.

Strain, H. H., Sherma, J., and **Grandolfo, M.** Column and thin-layer chromatography of chloroplast pigments, 3717.

Stransky, K. See **Streibl, M.,** 2227, 3578.

Stransky, Z., and **Stuzka, V.** Oxazines as acid - base indicators. VIII. Use in titration of weak bases in anhydrous acetic acid, 1319; IX. Determination of weak bases in nitromethane and chloroform - dioxan media, 2541.

Strassman, M., Ceci, L., and **Tucci, A. F.** Fluorimetric assay of malic acid and its derivatives, 2297.

Strauch, L. Automatic apparatus for preparative disc electrophoresis in polyacrylamide gel, 1313.

Strebel, P. J. See **Naude, W. J.,** 1336, and **Peisach, M.,** 1403.

Strecker, S. See **Bock, R.,** 158.

Streib, W. E. See **Merritt, L. L., jun.,** 677.

Streibl, M., and **Stransky, K.** Natural waxes. IX. Occurrence, isolation and identification of olefins in natural waxes, 2227; XI. Synthesis and GLC of higher cyclohexyl and other paraffins, 3578.

Streiff, F. See **Vigneron, C.,** 3721.

Strel'nikova, N. P., Kashlinskaya, S. E., Litvinskaya, I. I., and **Rylova, N. A.** Concentration of platinum-group metals and gold by ion exchange, 3471.

Strelow, F. W. E. Quantitative separation of barium from strontium and other elements by cation-exchange chromatography in hydrochloric acid - organic solvent eluents, 1362.

— **Liebenberg, C. J.,** and **Nolte, C. R.** Separation of aluminium, iron and titanium from calcium, magnesium and other elements by ion-exchange chromatography in malonate media, 2560.

— and **Van Zyl, C. R.** Quantitative separation of calcium from magnesium, aluminium and other elements by cation-exchange chromatography in ethanol - hydrochloric acid, 2605.

Strel'tsova, S. A. See **Markman, A. L.,** 577.

Streuli, C. A., and **Rogers, L. B.** Column chromatography of acidified molybdate solutions on gels, 149.

Strickland, E. H. See **Horwitz, J.,** 1916.

Strickland, R. D. [Analytical reviews, 1968]—Electrophoresis, 677.

Strocchi, A., and **Losi, G.** Separation and identification of geometrical isomers of octadeca-9,11-dienoic acid, 3516.
— and **Piretti, M.** Separation and identification of geometrical isomers of octadeca-10,12-dienoic acid, 3517. Separation and identification of geometrical isomers of linoleic and linolenic acids, 3659.
Stroehl, G. W. Analysis of ionic surfactants, 3573.
Stroemberg, H. See **Samuelson, O.**, 1449, 2795.
Stromberg, A. G., **Karbainov, Yu. A.**, and **Gridaev, V. F.** Determination of ultra-trace impurities by anodic-stripping voltammetry of a chloroform - dithizone extract, 24.
Strong, J. M. See **Mamantov, G.**, 22.
Stronski, I., **Kemmer, J.**, and **Kaubisch, N.** Separation of radium-228, actinium-228 and lead-212 from bismuth-212 by extraction chromatography in the system bis-(2-ethylhexyl) phosphate - hydrochloric acid, 31.
Struck, H., **Karg, H.**, and **Jork, H.** TLC determination of testosterone and androst-4-ene-3,17-dione in bovine foetal testicular tissue, 3677.
Strzelecka, H. See **Deryng, J.**, 1150, 3786.
Stuart, A. See **Frindt, R. F.**, 1906.
Stubbins, M., and **Fremlin, J. H.** Distribution of carbon, calcium and phosphorus in dental enamel studied by charged-particle activation analysis, 1.
Studier, M. H., and **Hayatsu, R.** Analyses of complex mixtures of hydrocarbons by time-of-flight mass spectrometry - open tube chromatography, 1447.
Stul'gene, S. P. See **Norkus, P. K.**, 2170, 2539, 3346.
Stulik, K., and **Vydra, F.** Voltammetry of EDTA and related compounds at a rotating platinum electrode, 663.
— See also **Dolezal, J.**, 1321, and **Vydra, F.**, 665.
Stull, J. W. See **Whiting, F. M.**, 3851.
Stupar, J., and **Dawson, J. B.** Theoretical and experimental aspects of the production of aerosols for use in atomic-absorption spectroscopy, 3210.
Stupin, N. P. See **Laskorin, B. N.**, 3973.
Sturrock, P. E., **Anstine, W. D.**, and **Gibson, R. H.** Derivative chronopotentiometry of multi-component systems, 667.
— See also **Flaschka, H.**, *Book*: Nov.
Stuzka, V., **Simanek, V.**, and **Ruzicka, E.** Oxazines as acid - base indicators. X. Study of Meldola blue derivatives, 2541.
— See also **Stransky, Z.**, 1319, 2541.
Su, J.-C. See **Yang, T.-I.**, 1147.
Subbiah, M. T., and **Kuksis, A.** Alkaline solvent systems for TLC of bile acids, 409.
Subbotina, A. I., and **Kozina, I. Z.** Detection and determination of dicyclopentadienyltitanium dichloride and cyclopentadienyltitanium trichloride by paper chromatography, 3549.
— **Kozina, I. Z.**, and **Pozina, L. S.** Concentration and determination of traces of calcium and magnesium in ammonium alum, 1366.
Sucha, L. Polarographic determination of ketones in phenol, 2193.
Suchet, A. Statistical quality control in the analytical laboratory, 1313.
Suess, A. See **Koeniger, M.**, 3091.
Sugden, J. K. See **Singh, M.**, 2540.
Sugiura, Y. See **Tanaka, H.**, 2124.
Suk, V. See **Neumann, J.**, 3264.
Sukhnevich, V. S. Analytical applications of a continuous-burning a.c. arc, 3983.
Sukhorukova, N. V. See **Busev, A. I.**, 75.
Sulfridge, C. See **Howard, O. H.**, 48.
Sulin, V. V. Same as **Sulin, W. W.**
Sulin, W. W. See **Belov, V. I.**, 2223, **Berzin, A. K.**, 2061, and **Pradzynski, A.**, 2590.
Sulis, E. See **Pabis, A.**, 2336.
Sullivan, J. L. See **Hahn, K. J.**, 1534.
Sullivan, J. V., **Timms, A. B.**, and **Young, P. A** Atomic-absorption analysis for nickel in mineral samples by using a resonance detector, 2750.
— and **Walsh, A.** Isolation and detection of atomic resonance lines in atomic-absorption analysis, 3214.
Sullivan, R. E. See **Kiser, R. W.**, 677.
Sumida, T. See **Shigematsu, T.**, 168.
Summer, G. K. See **Hill, H. D.**, 3732.
Summers, R. M. See **Mefferd, R. B., jun.**, 3964.
Sumyk, G. B., and **Yocum, C. F.** Gel-filtration behaviour of heparin and *N*-desulphated heparin 1572.
Sun, C.-T. See **Anselmo, V. C.**, 125.
Sun, K. K., and **Holman, R. T.** Mass spectrometry of lipid molecules, 2.
Sun, P. See **Chan, K.-Y.**, 96.
Sundararajan, K. See **Narasimham, K. C.**, 668.
Sundararajan, N. R. See **Muck, G. A.**, 509.
Sunshine, I., **Maes, R.**, and **Faracci, R.** Determination of glutethimide and its metabolites in biological specimens, 2889.
Sunta, C. M. See **Nambi, K. S. V.**, 2526.
Suomalainen, H. See **Nykanen, L.**, 1773.
Supina, W. R., **Pelick, N.**, **Rose, L. P.**, and **Walker G. C.** Selection and evaluation of stationary phases for qualitative separation of components of lipid mixtures by GLC, 3952.
Supinski, J. Determination of the composition o cobalt - zinc ferrites by the impregnated-paper method, 3460.
Surovoi, Yu. N. See **Orzhekhovskaya, A. I.**, 1387 and **Vasserman, A. M.**, 3418.
Susi, H. See **Purcell, J. M.**, 252.
Suszka, A. See **Kurzawa, Z.**, 3701.
Sutcliffe, L. H. See **Emsley, J. W.**, *Book*: Oct.
Sutcliffe, R. A., and **Jones, G. A.** Study of analysis of sewage, 3130.
Suteu, A. See **Liteanu, C.**, 2691.
Suttle, E. T. See **Emerson, D. E.**, 716.
Sutton, A. See **Carr, T. E. F.**, 1.
Sutton, R., and **Harris, W. E.** Determination o optimum temperatures in pyrolysis - gas chromatography, 3942.
Suzdaleva, N. I., **Stephanenko, B. N.**, and **Zelenkova V. V.** TLC of *N*-aryl derivatives of sugar amines 377.
Suzuki, K., **Goto, Shinko**, and **Kashiwa, T.** Residue analysis of agricultural chemicals. I. Determination of parathion-methyl in rice grains by GLC, 2408.
Suzuki, S. See **Masukawa, K.**, 3688.
Suzuki, T. See **Yamamoto, O.**, 226.
Svec, H. J., and **Conzemius, R. J.** Analysis o National Bureau of Standards potassium dichromate, 1982.
— and **Flesch, G. D.** Use of a mass spectrometer for simultaneous collection of positive and negative ions, 1909.
Svehla, G. See **Erdey, L.**, 9.
Svennerholm, L. See **Alling, C.**, 1030.
Svenska Sockerfabriks Aktiebolaget. Determinatio of traces of soluble carbohydrates in a retur flow of water in an industrial process, 3883.
Svetlaeva, V. M. See **Devyatnin, V. A.**, 3653.
Svoboda, R. Measurement of the evolution o tritium from titanium - tritium targets an determination of the tritium content of air wit liquid scintillators, 1193.

oboda, V. Evaluation of photographic materials used in emission spectrography, 1892. Use of light-frequency modulation of continuum source in atomic-absorption spectrophotometry, 3205.

and **Kleinmann, I.** Spectrographic determination of impurities in radioactive substances by using a pulsed arc in an argon atmosphere, 1891. High-current impulse argon-arc spectrographic analysis of micro samples, 3982.

ojanovsky, V. See **Janak, J.**, 615.

vaim, W. R. Spectrophotometric assay of plasminogen, 426.

veasey, D. Hazards occurring in the analytical use of perchloric acid, 3272.

vinnerton, J. W., Linnenbom, V. J., and **Cheek, C. H.** Sensitive GSC determination of dissolved carbon monoxide in sea-water, 1209.

vintosky, J. V., Caldwell, H. C., Chong, C. W., Irwin, G. M., and **Dittert, L. W.** Determination of 4-acetamidophenyl 2,2,2-trichloroethyl carbonate in presence of paracetamol, 1691.

vofford, H. S. See **Fulton, R. B.**, 1981.

amalarao, K. See **Roy, A. K.**, 2716.

birska, H. See **Lewandowski, A.**, 1139.

dykova, D. S. See **Romantsev, M. F.**, 232.

lvestre, M. See **Castagnou, R.**, 2875.

nge, R. L. M. See **Clarke, E. M. W.**, 1614, and **Jennings, A. C.**, 1614.

rty, A., and **Dean, J. A.** Determination of phosphorus and sulphur in fuel-rich air - hydrogen flames, 3404.

zabadvary, F. See **Banyai, E.**, 2729.

zabo, E., and **Rausch, H.** Activation analysis for trace contaminants in gallium arsenide semiconductor materials, 81.

zabo, Z. L. Spectrographic examinations with rotating samples of foundry aluminium. III. Time effects in polarised a.c. arc excitation, 763; IV. Analytical investigations with pre-excitation, 763; V. Influence of speed of electrode rotation, 763.

zakacs (nee **Pinter**), **M.,** and **Maros, L.** Analytical applications of oxidation of organic compounds with bromine. II. Determination of *p*-phenetidine and phenacetin by oxidation with bromine to *p*-benzoquinone and ammonia, 1130; III. Determination of 2-furaldehyde and furfuryl alcohol, 2207.

zap, P. C., and **Utynok, W. R.** Infra-red determination of phenanthrene in anthracene, 2818.

zasz, G. Comparison between thiocholine esters and *o*-nitrophenylbutyrate as substrates in the assay of serum cholinesterase, 2969.

- See also **Budvari, Z.**, 2389.

zczepaniak, W. Use of organomercury polymers as ion exchangers. I. Anion-exchange properties of mercurated styrene - divinylbenzene copolymers, 2474.

zego, L., and **Calvert, J. M.** Naphthenic acid extraction of calcium for determination by atomic-absorption spectrophotometry, 2604.

zekacs, I., and **Klembala, M.** Two-dimensional TLC of neuraminic acid-containing lipids, 402.

zekely, E. Colorimetric determination of nitrites with bis-(4-aminophenyl) sulphone - diphenylamine as reagent, 3398.

zekeres, L., and **Kellner, A.** Chelatometric determination of oxidants and reductants. IV. Determination of formaldehyde via EDTA titration, 2169.

zepesy, C. See **Fuchs, P.**, 3598.

Szepesy, G. L. See **Kahan, I. L.**, 1627.

Szilagyi, E. See **Fodor** (nee **Csanyi**), **P.**, 2525.

Szirtes, L., Zsinka, L., Zaborenko, K. B., and **Iofa, B. Z.** Investigation of synthetic inorganic ion exchangers, 622.

Szivek, J., Jones, C., Paulson, E. J., and **Valberg, L. S.** Improved performance of a plasma jet equipped with an atomiser, 2498.

Szotyori, L. See **Ripan, R.**, 928.

Szulmayer, W. Use of selenium dioxide hygrometric probes, 3787.

Szustkiewicz, C. See **Van Dyke, K.**, 1087.

Szylit, M. Vertical electrophoresis on acrylamide gel, 3183.

Szymanski, H. A., and **Ellis, Robert.** Analysis for trace substances in proteins, polymers, and related substances by GSC, 427.

Szymborski, A. Determination of ash content in brown coal by gamma - gamma logging, 2768.

Szynagel, P., and **Jedrychowska, M.** Use of sand as supporting material in GLC of fatty acids, 1248.

T

Tabata, T. See **Shigematsu, T.**, 1948.

Tabib, S. N., Kulkarni, S. Y., and **Pansare, V. S.** Determination of the number and the nature of acetyl groups in organic compounds, 225.

Taborisskaya, E. A. See **Emel'yanov, N. P.**, 276.

Tabushi, M. See **Shigematsu, T.**, 3371.

Tachikawa, T. See **Furuya, K.**, 181.

Tada, K., and **Gohshi, Y.** [Annual review, 1968]—Analysis of semi-conductor materials, 1948.

Tadema, G., and **Batelaan, P. H.** Detection of some halogenated phenols and nitrophenols in TLC by means of bromine. [I.], 277; I. Detection of small amounts of phenols and dicyclohexylurea derivatives in activated *N*-phthaloyl-L-amino-acid esters, 3706.

Taeuber, K. A. G., and **Schmidt, E. R.** Electrical potential measurements on clays, 204.

Tagliamonte, A., Spano, P. F., Mazzucato, P., and **Gessa, G. L.** Method of extraction and the determination of 4-hydroxy-3-methoxyphenylacetic acid in tissues, 1023.

Takacs, J. See **Liptay, G.**, 609, and **Mazor, L.**, 3968.

Takacs, O. See **Pal, S.**, 1604.

Takacsi Nagy, G. See **Budvari, Z.**, 2389.

Takada, J. See **Kiso, Y.**, 288.

Takagi, M., Gotoh, Y., Hosogaki, R., Amano, S., and **Ono, S.** Determination of carbonyl groups in starch by polarographic techniques using *o*-phenylenediamine. I. Reactions of *o*-phenylenediamine with mono- and di-saccharides, 3792.

Takahashi, D. M. Determination of butylated hydroxyanisole and butylated hydroxytoluene in breakfast cereals by GLC, 3063.

Takahashi, H. See **Bryan, G. T.**, 3629.

Takahashi, T., Kawamura, K., Araki, H., and **Yamamoto, T.** Infra-red absorption spectrometry of brominated salicylanilide, 2200.

Takatsy, G. See **Metrimpex Magyar Muszeripari Kulkereskedelmi Vallalat**, 3139.

Takenaka, T., and **Umemura, J.** [Annual review, 1968]—Infra-red absorption and Raman spectra, 1948.

Takeshima, T. See **Yokoyama, M.**, 2121.

Takeuchi, K. See **Nomura, T.**, 2666.

Takeuchi, T. See **Shijo, Y.**, 2014.

Takriti, N. See **Thorn, W.**, 2907.

Talanin, Yu. N. See **Sattarov, M. M.**, 1430.

Talipov, Sh. T., Krukovskaya, E. L., and **Nuritdinova, M.** Complexometric titration of cerium^{III} in a mixture with aluminium, copper^{II} or iron^{III} with [3-(1-methyl-2-piperidyl)-2-pyridylazo]-*p*-cresol as indicator, 2025. Complexometric titration of cerium^{III} and thorium, separately and when both are present, with [3-(1-methyl-2-piperidyl)-2-pyridylazo]-*p*-cresol as indicator, 3366.
— **Podgornova, V. S.,** and **Lyapin, S.** [3-(1-methyl-2-piperidyl)-2-pyridylazo]-1-naphthol as reagent for the absorptiometric determination of cerium, 3365.
— See also **Kamaeva, G.,** 52, 726, **Mansurkhodzhaev, U.,** 2692, and **Shesterova, I. P.,** 187.
Talipova, L. L. See **Abramova, E. L.,** 3440.
Talmage, J. M., Chafetz, L., and **Elefant, M.** Study of the instability of cyclamate in aqueous alcoholic solution 2393.
Tal'roze, V. L., and **Khmel'nitskii, R. A.** Mass-spectrometric analysis: progress report, 3.
Tam, N. T. See **Nguyen Thi Tam.**
Tam, T.-P. See **Chan, K.-Y.,** 96.
Tamarchenko, L. M. Absorptiometric determination of bromide in natural water and food products, 3872.
Tambat, N. D., and **Merchant, R. N.** Analytical applications of ethyl 1-hydroxy-2-naphthyl ketoxime. I. Reactions with metal ions and gravimetric determination of copper, 1987.
Tamhina, B. See **Djordjevic, C.,** 3413.
Tamir, I. See **Fosbrooke, A. S.,** 2301.
Tampalini, L. See **Spandrio, L.,** 1557.
Tamura, Z. See **Kawai, S.,** 2926, 2927, and **Matsui, Michio,** 3508.
Tanabe, S. See **Sakaguchi, T.,** 1948.
Tanaka, G., Tomikawa, A., Kawamura, Hisao, and **Oyagi, Y.** Determination of strontium by atomic-absorption spectrophotometry, 2272.
Tanaka, H., Sugiura, Y., Hujiwara, S., and **Yokoyama, A.** Studies of sulphur-containing chelating agents. XVII. 3-Mercaptoacrylic and 3-mercaptocrotonic acids, and the use of their thiouronium salts for the spectrophotometric determination of nickel and cobalt, 2124.
— **Sugiura, Y.,** and **Yokoyama, A.** Studies of sulphur-containing chelating agents. XVI. β-Mercaptohydrocinnamic acid and β-mercaptocinnamic acid as reagents for the spectrophotometric determination of nickel and cobalt, 2124.
— See also **Yamauchi, O.,** 1342.
Tanaka, M., and **Kojima, I.** Use of vanadium^{V} complexes as reagents for the photometric determination of alcohols, 893.
Tanaka, S. See **Katsuki, H.,** 3661.
Tanaka, Takashi. See **Yamamoto, Yuroku,** 2440.
Tanaka, Teruji. See **Kennan, R. W.,** 2305.
Tanaka, Tsuguo. Addition compounds of salicylaldehyde - ethylenediamine - copper. IX. Synthesis of 3-carboxyalkylsalicylaldehyde derivatives and application of their chelate-forming properties to determination of copper and nickel, 1951.
Tanase, P. See **Crisan, I. A.,** 728, 756.
Tandon, H. L. S. See **Kurtz, L. T.,** 2619.
Tandon, J. P., and **Gupta, O. P.** Use of *N*-1-naphthyloxamic acid as reagent for the gravimetric determination of copper^{II}, 2585.
— See also **Chawla, K. L.,** 2199, 2694, and **Misra, G. J.,** 742.
Tandon, K. N. See **Singhal, G. K.,** 2542.
Tandon, S. N., and **Wasson, J. T.** Determination of indium, gallium and germanium in high-purity silica, 1389.
Tanegashima, C. See **Katsuki, H.,** 3661.
Taneva, N. See **Nin'o, N.,** 3775.
Tang, C. W., and **Tomlinson, R. H.** Determinatio
of protein-bound iodine by activation analysis,
Taniguchi, H. See **Uno, T.,** 2363.
Tanner, H., and **Duperrex, M.** TLC - fluorimetri
micro-determination of sorbitol, mannitol, inve
sugar, glycerol and butane-2,3-diol in beverage
3042. Determination of sorbitol in pear, app
and cherry juices, 3043.
Tanos, F. Determination of iron in ferrites con
taining nickel and aluminium, 173.
Tao, E. See **Yamamoto, Yuroku,** 2064.
Tappel, A. L. Automated determination of prote
lytic enzymes, 2348.
Tapper, B. A. See **Bennett, W. D.,** 1573.
Tarabarina, L. P. See **Vyakhirev, D. A.,** 1468.
Tarakanova, M. P., and **Tereshchenko, O. Ya.** Dete
mination of deoxycytidine in human urine, 295
**Tarasevich, N. I., Zheleznova, A. A., Moreiskay
L. V.,** and **Kogan, O. Kh.** Spectral and spectr
chemical determination of impurities in tungste
154.
Tarasiewicz, M. See **Basinska, H.,** 820.
Tarassuk, N. P. See **Yaguchi, M.,** 514.
Taraszka, A. J. See **Houtman, R. L.,** 1121.
Tarayan, V. M., Ovsepyan, E. N., and **Artsrun
V. Zh.** Extraction - photometric determinati
of thallium with methyl green, methylene blu
toluidine blue and methylene green, 2634.
— **Shaposhnikova, G. N.,** and **Acharyan, G.**
Amperometric determination of gold with me
cury^{I} nitrate, 1355.
Tardif, J. P. See **Tran Van Danh,** 3464.
Tarenova, K. Kh. See **Nikolaeva, E. R.,** 148, 342
Tarr, C. E. See **Lowe, I. J.,** 647, 2513.
Tarumoto, T. See **Yamamoto, Yuroku,** 1948.
Taskaeva, T. P. Atomic-absorption determinati
of cadmium in aqueous solutions of the cadmiu
chloride - potassium chloride - lithium chlori
eutectic mixture, 64.
Tataev, O. A. See **Bagdasarov, K. N.,** 757.
Tatarskaya, A. Z. See **Mansurkhodzhaev, U.,** 269
Tataru, S., Filip, G., and **David, B.** Adsorption
uranium by ion-exchange resins in the presen
of ferricyanide, 785.
Tate, M. E. Separation of myoinositol pent
phosphates by moving-paper electrophores
1017.
Taupp, W. See **Wilk, M.,** 1313.
Tautu, G. See **Ripan, R.,** 1093, 2797.
Taveira Magalhaes, M. See **Magalhaes, M. T.**
Tavel, P. von, and **Bolliger, W.** Fractionation
serum proteins with pairs of liquid phases. I
Centrifuge for counter-current distribution, 58
Tayal, J. N. See **Chandra, U.,** 2362.
Taylor, B. L. Graphite resistance furnace for u
in the inert-gas fusion method of determini
gases in metals, 2452.
Taylor, C. B. See **Forman, D. T.,** 1596.
Taylor, D. See **Riley, J. P.,** 575, 1212.
Taylor, D. M. Use of activation analysis in hum
biochemistry, 1.
— See also **Wormwood, M.,** 1.
Taylor, F. R. See **Hogan, V. D.,** 2262.
Taylor, G. L. See **Nurok, D.,** 257.
Taylor, H., and **Beamish, F. E.** Isolation of osmiu
or ruthenium by ion-exchange paper and su
sequent determination by X-ray fluorescen
2757.
Taylor, J. H. See **Ballinger, J. T.,** 1874.
Taylor, J. K. See **Durst, R. A.,** 1351.
Taylor, J. R., and **Blomquist, V. H.** Polarograp
determination of fumaric acid in foods, 1748.

ylor, M. B. See **Lyne, F. A.**, 242.

ylor, R., and **Bogacka, T.** Determination of DDT, methoxychlor and gamma-BHC in water by extraction and TLC. I. Semi-quantitative method, 1206; II. Quantitative method, 3128.

ylor, T. N. See **Babad, H.**, 553.

gyey, Z. See **Matkovics, B.**, 2312.

khrib, T. K. See **Gruzdeva, N. A.**, 948.

kinalp, B. See **Guven, K. C.**, 486, 1679.

legdy-Kovats, L., **Berndorfer-Kraszner, E.**, and **Devai, A.** Detection and determination of pangamic acid, 2961.

lling, G. M. See **Sissons, D. J.**, 524.

mber, N. I. See **Ospanov, Kh. K.**, 732.

mkina, V. Ya., **Bozhevol'nov, E. A.**, **Dyatlova, N. M.**, **Kreingol'd, S. U.**, **Yaroshenko, G. F.**, **Antonov, V. N.**, and **Lastovskii, R. P.** Use of triazinylstilbexon as a fluorescence reagent for chromium^{III}, 833.

mpel, B. See **Holzapfel, H.**, 841.

mpleton, R. J., **Arnett, W. A.**, and **Jakovljevic, I. M.** Comparative study of a fluorimetric assay of mestranol in tablets with GLC and colorimetric assay, 2386.

n Bosch, J. J. See **Bosch, J. J. ten.**

ngler, H. See **Reichle, A.**, 1733.

nnant, D. A. See **Folsom, T. R.**, 1207.

odorescu, M. See **Timar, M.**, 1555.

odorescu, N., **Demetrescu, C.**, and **Chirita, C.** Analytical applications of 4-(benzenesulphonyl)-benzohydrazide complexes with copper^{II}, 727.

odorovich, I. L. See **Mechos, Kh. Z.**, 866.

ploukhova, G. A. See **Parkhomenko, G. V.**, 1199.

rekhovich, S. L. Direct spectrographic determination of low concentrations of palladium in ores and technological products, 874.

rent'ev, A. B. See **Aminov, S. N.**, 250.

rent'ev, A. P., **Bondarevskaya, E. A.**, and **Kirillova, T. V.** Analysis of organometallic compounds. III. Determination of silylidyne groups by coulometric titration, 3494.

rent'eva, E. A., **Vinogradova, E. N.**, and **Akimov, N. P.** Polarographic micro-determination of thallium in organothallium compounds, 914.

- See also **Gel'man, N. E.**, 3.

reshchenko, A. N. See **Pokrovskaya, E. I.**, 1047.

reshchenko, A. P. See **Pokrovskaya, E. I.**, 985.

reshchenko, O. Ya. See **Tarakanova, M. P.**, 2957.

rlouw, J. K. See **Griepink, B. F. A.**, 1439.

rraza Martorell, M. See **Carballido, A.**, 3032.

rrey, D. R. See **England, E. A. M.**, 219.

rtian, R. Comparison of fusion methods for determination of light elements by X-ray fluorescence, 2620.

rzeman, L. N. See **Busev, A. I.**, 75.

sarik, K. See **Novotny, M.**, 3949, and **Onuska, F.**, 290.

sta, A. C. See **Rusakowicz, R.**, 654, 3987.

vlina, A. S. See **Kiryushov, V. N.**, 3232.

wari, G. D. See **Ramaiah, N. A.**, 130.

wari, S. N. Separation and identification of alkaloids by paper electrophoresis: application in medico-legal cases, 366.

halacker, R., and **Kross, W.** Analysis of bratwurst sausages, 1153.

haroor, N. See **Chopra, S. L.**, 1780.

haxton, V. L., and **Bowie, W. C.** Determination of lecithin in plasma as choline, 3687.

heimer, E. E., and **Pavelek, J. J.** Titration of residual moisture in freeze-dried phials, 1658.

hibert, R. J. See **Sarwar, M.**, 270.

hiel, R. See **Puyo, M.**, 304.

hiele, D., and **Schmieder, H.** Use of spectrophotometry in a glove-box, 4005.

Thieme, Heinz [Berlin, Germany]. See **Seidler, E.**, 2823.

Thieme, Heinz [Leipzig, Germany], and **Nguyen Thi Tam.** Spectrophotometric determination of estragole in tarragon oils, 2831.

Thier, H.-P., **Bricout, J.**, **Viani, R.**, **Reymond, D.**, and **Egli, R. H.** Determination of scopoletin in raw coffee, 3065.

Thijssen, J. H. H., and **Veeman, W.** Determination of oestrogens in urine by GLC, 1035.

— See also **Klokke, A. H.**, 1592.

Thilliez, G. Determination of mercury in air and biological samples by atomic-absorption spectrophotometry, 2435.

Thi Tam, N. See **Nguyen Thi Tam.**

Thomas, B. S. See **Gower, D. B.**, 3678.

Thomas, C. C. See **Curry, A.**, *Book*: Nov.

Thomas, C. L., and **Gifford, J. C.** Determination of water vapour in tough pitch copper wire bar by an aluminium reduction technique, 2593.

Thomas, E. J., **Burke, J. A.**, and **Lawrence, J. H.** TLC of chlorinated pesticides, 1800.

Thomas, H. Column-chromatographic ion exchange separation of catecholamines metabolites, 1045.

Thomas, J. See **Garcia-Villanova, R.**, 898.

Thomich, W. Collaborative coulometric determination of carbon in steel, 2739.

— See also **Lassner, E.**, 2045.

Thommegay, C. See **Munier, R. L.**, 422.

Thompkins, L. See **Lee, K. H.**, 2374.

Thompson, C. E., **Nakagawa, H. M.**, and **VanSickle, G. H.** Determination of gold in geological materials, 2598.

— See also **Nakagawa, H. M.**, 2708.

Thompson, K. C. See **Aldous, K. M.**, 1894, and **Dagnall, R. M.**, 640, 2690, 2672, 3386.

Thompson, L. H. See **Gohlke, R. S.**, 1911.

Thompson, R. R. Enzymic identification of animal and fish species, 3026.

Thomsen, J. S., and **Yap, F. Y.** Effect of statistical counting errors on wavelength criteria for X-ray spectra, 1266.

Thomson, J. See **Ruzicka, J. H.**, 552.

Thomson, S. J. See **Lenihan, J. M. A.**, *Book*: Nov.

Thorn, W., and **Takriti, N.** TLC and ion-exchange chromatography for separation of glucuronides and of aglycones, 2907.

— See also **Busch, E.-W.**, 2953.

Thornton, A. M. See **Krzeminski, L. F.**, 2286.

Thorp, R. G. See **Firth, R. A.**, 2343.

Thorpe, J. D. See **Perkins, R. W.**, 1.

Thorstensen, T. C., and **Lord, D. F.** Development of stratigraphic analysis in the study of chrome tanning, 2261.

Thrasher, J. J., and **Brickey, P. M., jun.** Extraction of light filth from paprika, 1745.

— See also **Brickey, P. M., jun.**, 3010.

Thuraisingham, S. T. See **Davies, J. R.**, 1523, 3602.

Thyssen, L. A. See **Wijngaarden, D. van**, 3084.

Tibbitts, S. See **Armstrong, F. A. J.**, 1233.

Tibbling, G. See **Schersten, B.**, 374.

Tichy, J. See **Alling, C.**, 1030.

Tietje, H. G. See **Becton, Dickinson & Co.**, 3897, 3898.

Tikhonova, T. V. See **Bilimovich, G. N.**, 3353.

Tiley, P. F. See **Cockle, N. A.**, 3967.

Tillack, J. Gravimetric determination of halides and oxyhalides by the 'H-tube' method, 3279.

Timar, M., **Hadrich, I.**, **Nitelea, I.**, **Teodorescu, M.**, and **Mogos, I.** Determination of 5-mercapto-6-azauracil and its metabolites in urine, 1555.

Timbrell, V. Use of a clock-driven dry aspirator, 594.

Timma, D. L. See **Bryant, R.,** 1137.

Timms, A. B. See **Sullivan, J. V.,** 2750.

Timms, B. G. See **Clark, A.,** 1561.

Timnick, A. See **Urbach, F. L.,** 2015.

Tindle, R. C., Gehrke, C. W., and **Aue, W. A.** Determination of 1,3,5-triazine residues by GLC, 1187.

Tinker, H. B., Craddock, J. H., and **Paulik, F. E.** Automatic constant-pressure apparatus for measuring the absorption or evolution of gases, 1225.

Tinsley, D. A. See **Graham, R. J. T.,** 1968.

Tiptsova, V. G., and **Kopnina, O. I.** Spectrophotometric determination of iron in purified cadmium or zinc, 66.

Tishchenko, I. G. See **Gruchenkov, R. G.,** 2537.

Titkova, N. F. Colorimetric determination of aluminium in natural water and soil with Chrome Azurol S, 3868.

Titova, Z. M. See **Plyusnin, V. G.,** 2146.

Titovets, A. V. See **Buyanov, N. V.,** 862.

Tixier, R. See **Philibert, J.,** 2490.

Tjebbes, J. A. See **Svenska Sockerfabriks Aktiebolaget,** 3883.

Toal, J. N., Rushizky, G. W., Pratt, A. W., and **Sober, H. A.** Computer-assisted characterisation of oligoribonucleotides by their u.v. absorption, 1085.

Tobailem, J. See **Mabuchi, H.,** 3284.

Tobias, J. See **Muck, G. A.,** 509.

Tobin, M. C. Laser Raman spectroscopy of crystal powders, 3989.

— See also **Centre National de la Recherche Scientifique,** 1273.

Tochikura, T. See **Uchiyama, K.,** 2937.

Tochiyama, O. See **Fujinaga, T.,** 3317.

Toedt, F., and **Abraham, J. G.** Determination of invert sugar, 3790.

Toei, K. See **Motomizu, S.,** 2438.

Toelg, G. See **Engler, R.,** 222, and **Gruenert, A.,** 1404.

Toennies, G., Das, D. N., and **Feng, F.** Determination of bacterial lipid-phosphorus, 1584.

— See also **Das, D. N.,** 672.

Tokarskaya, I. I. See **Anashkina, N. P.,** 2196.

Tolboe, O. See **Brandt, P. E.,** 1455.

Toledo, R., Steinberg, M. P., and **Nelson, A. I.** Determination of bound water by NMR, 3794.

Tolstov, L. K. See **Zolotavin, V. L.,** 2695.

Tomasek, M. See **Benes, J.,** 2783.

Tomaskova, V. Use of gas chromatography in analysis of inhalation anaesthetics: review, 3764.

Tomaskovic, M. See **Blenovic-Solter, A.,** 13.

Tomaszkiewicz, T. See **Bolewski, K.,** 2840.

Tomati, U. See **Giovannozzi-Sermanni, G.,** 3734.

Tomi, B. See **Manoliu, C.,** 3351.

Tomikawa, A. See **Tanaka, G.,** 2272.

Tomita, Y. See **Chiaki, E.,** 2103, 2127.

Tomiyasu, N. See **Aramaki, H.,** 1664.

Tomlinson, R. H. See **Tang, C. W.,** 1.

Tomlinson, R. W. S. See **Battye, C. K.,** 1.

Tommel, D. K. J., Vliegenthart, J. F. G., Penders, T. J., and **Arens, J. F.** Separation of peptides and α-amino-acids, 1067.

Tompa, A. S., and **Barefoot, R. D.** Determination of water and of hydrogen-bonding in tris-(2-methyl-1-aziridinyl)phosphine oxide by i.r. spectrophotometry and NMR spectrometry, 326.

Tompsett, S. L. Detection of phenothiazine drugs in urine, 1003. Spectrofluorimetric determination of phenothiazine drugs in blood serum, 1004. Determination of nitrazepam in blood serum and urine and of chlordiazepoxide in urine, 2283.

Tomura, K., Higuchi, H., Miyaji, N., Onuma, N., and **Hamaguchi, H.** Determination of rare earth metals in rock samples by neutron-activation analysis with a lithium-drifted germanium detector after chemical group separation, 1376.

Tomura, T., Okano, H., Hara, K., and **Watanabe Tadao.** Multi-step intensity indication in scanning micro-analysis, 1310.

Tomus, M., and **Totan, M.** Separation of lanthanum from uranium by paper electrophoresis, 2641.

Tonks, D. B. Dual programme of quality contro for clinical chemistry laboratories: allowabl limits of error, 1312.

Toothacker, W. S. See **Preuss, L. E.,** 1310.

Toptygina, V. I. See **Sheimukhametova, A. A.,** 3099

Toren, E. C., jun. [Analytical reviews, 1968]—Potentiometric titrations, 677.

— and **Burger, F. J.** Trace determination of metal ion inhibitors of the glucose - glucose oxidas system, 1350.

Toren, P. E. Determination of traces of antimon in water by single-sweep polarography, 2439.

Torgov, I. V. See **Zaretskii, V. I.,** 2915.

Torgov, V. G. See **Gil'bert, E. N.,** 2076, and **Nikolaev, A. V.,** 706.

Toscano, G. See **Fortina, L.,** 3497.

Toseland, P. A. See **Leach, H.,** 1552.

Totan, M. See **Tomus, M.,** 2641.

Toth, K. See **Macdonald, A. M. G.,** 1305.

Toth, L. See **Piorr, W.,** 3824.

Tot Pannerden, E. B. L. M. van N. See **Pannerden E. B. L. M. van N. tot.**

Toubes, R. O., and **Bermudez Polonio, J.** X-ra fluorescence of granitic biotites: determination iron, manganese, titanium, calcium, potassium silicon and aluminium, 202.

Touchstone, J. C. See **Flickinger, G. L.,** 3675.

Tourenq, L. See **Bore, P.,** 1495.

Tournayan, L. See **Urbain, H.,** 2126.

Tous, J. G. See **Gracian Tous, J.**

Toussaint, C. J. See **Conti, R.,** 788.

Tousset, J., Condamin, J., and **Picon, M.** Neutro activation analysis of ancient coins, 741.

Townsend, J., and **James, V. H. T.** Semi-automate fluorimetric determination of plasma corticosteroids, 1041.

Townshend, A. Study of nucleation in precipitati from homogeneous solution, 1950.

— See also **Bashar, A.,** 186, **Belcher, R.,** 141 **Brookes, A.,** 2588, **Halls, D. J.,** 268, 912, 119 1191, **Mealor, D.,** 3344, **Nisli, G.,** 887, an **Rocchiccioli, C.,** 747.

Trafford, D. J. H., and **Edwards, R. W. H.** Dete mination of the number of oxygen substituen of steroids by paper chromatography, 2914.

Trainer, T. D., and **Gruenig, D.** Analysis of creati kinase isoenzymes, 2965.

Traisnel, M. See **Guyot-Hermann, A.,** 2974.

Trakhtenberg, D. M., Inozemtseva, I. I., Rozenfel' G. S., Kamokina, Z. F., and **Ermakova, L.** Counter-current distribution and TLC of benzy penicillin salts, 3746.

Trambouze, Y. See **Figueras Roca, F.,** 191.

Tran Van Danh, Tardif, J. P., and **Spitz, J.** Preliminary separation before the spectrophot metric determination of nickel in high-puri cobalt, 3464.

— See also **Uny, G.,** 744.

Trasatti, S. See **Formaro, L.,** 2441.

Trau, J. Reporting thermoanalytical, therm gravimetric and derivatographic results, 4029.

Trautschold, I. See **Wellmann, E.,** 1313.

autwein, N. L., and **Guyon, J. C.** Spectrophotometric determination of the perchlorate ion, 162. Spectrophotometric determination of chlorate ion, 1412.

avagli, G. Determination of cobalt with 6-hydroxy-5-nitrosoquinoline, 2746.

averia Cros, A. See **Solans Huguet, J.**, 2741.

avesi Jimenez, A., and **Lee, Y. Y.** Identification and determination of trace elements in rice seeds by neutron-activation analysis, 1.

avis, J. C., and **Spijkerman, J. J.** Mossbauer spectroscopy with nickel-61, 1311.

avnicek, M. See **Pristoupil, T. I.**, 3722.

eadwell, G. E., Cairns, W. L., and **Metzler, D. E.** Photochemical degradation of flavines. V. Chromatographic studies of the products of photolysis of riboflavine, 2341.

effler, A. A. Analysis of powdered alkaline cleaning compounds, 315.

ehan, J. C. Separation of metal ions as 1-(2-pyridylazo)-2-naphthol complexes by TLC, 2555.

ehin, J. See **Kuzdzal-Savoie, S.**, 516.

endafelov, D. See **Paskalev, N.**, 80.

eshchilova, A. F. See **Karpukhin, P. P.**, 906.

et'yak, Z. A. See **Karpukhin, P. P.**, 906.

eves, C. See **Nassi, P.**, 453.

ica, L. See **Cordos, E.**, 750.

ier, K., Neubert, P., and **Ebeling, R.** Determination of zinc in plants, 356.

iet, A. J. van. See **Heiden, D. A. van der**, 2318.

iggs, E. J. See **Jun, H. W.**, 3628.

ikha, K. C. See **Garg, B. S.**, 2060, 3358.

imnell, D. Restoration of transmission to silver chloride plates used in i.r. spectrophotometry, 3224.

ischler, F. Potentiometric determination of gentisate with platinum and carbon electrodes, 2391.

ivedi, S. R. See **Ramaiah, N. A.**, 130.

roemel, M., and **Urmann, E.** Comparison of evaluation methods for determining particle size and lattice distortion from X-ray reflection broadening, 1943.

roitskii, K. V. Determination of ultra-small amounts of certain elements by evaporation of radioactive isotopes from solid surfaces, 3283.

rtik, B. See **Franc, J.**, 3488.

rubnikov, V. I., Malakhova, L. M., Zhdanovich, E. S., and **Preobrazhenskii, N. A.** Pyridinecarboxylic acids. II. GLC of carboxylic acids of the pyridine series and their amides, 295.

— **Pakhomov, V. P., Berezkin, V. G., Zhdanovich, E. S.**, and **Preobrazhenskii, N. A.** Comparison of solid supports for use in GLC of carboxylic acids and of pyridine and quinoline bases, 279.

— **Zhdanovich, E. S.**, and **Preobrazhenskii, N. A.** Pyridinecarboxylic acids. III. GLC in the production of nicotinic and isonicotinic acids from a 3-picoline fraction, 932.

ruelove, J. F. See **French, W. N.**, 1698.

ruhaut, R. Toxic effects of chemicals: review, 1947.

rukhacheva, V. A. See **Malakhov, V. V.**, 3411.

rushina, L. F. See **Kaplin, A. A.**, 1925.

rusk, A. See **Bottei, R. S.**, 1409.

rusova, M. I. See **Molot, L. A.**, 767.

sarfin, Ya. A. See **Mokeeva, R. N.**, 2820.

serkovnitskaya, I. A., Borovaya, N. S., and **Ankudinova, M. M.** Polarography of the system zirconium - xylenol orange with a rotating platinum electrode, 3396.

— and **Kustova, N. A.** Spectrophotometric determination of molybdenum in steel, 2116.

silifonis, D. C. See **Chafetz, L.**, 2388.

Tsitovich, I. K., and **Kuz'menko, E. A.** Exchange constants and the possible separation of chloroacetates by ion-exchange chromatography, 905.

Tsuda, K. See **Ikekawa, N.**, 2306.

Tsuji, A. Microchemical detection of organic hydrazines by using ion-exchange resin grains, 1456.

— **Nakamura, Akitada**, and **Nakamura, Akie.** Colour reaction of mononitrobenzene derivatives with phenylacetonitrile in an alkaline dimethylformamide medium, 2811.

Tsuji, K. Automated determination of pyridoxol using *NN*-diethyl-*p*-phenylenediamine and boric acid, 2986.

Tsukamoto, H. See **Aramaki, H.**, 1664.

Tsunogai, S., Nishimura, M., and **Nakaya, S.** Complexometric titration of calcium in sea-water in the presence of larger amounts of magnesium, 1208.

Tsutsui, M. Characterisation of organometallic compounds. Part I, *Book*: Sept.

Tu, N. D. See **Nguyen Dyk Tu.**

Tuba, J. See **Simpson, W. J.**, 3620.

Tucci, A. F. See **Strassman, M.**, 2297.

Tucker, C. L. Determination of menthol in cigarette-tobacco filler, 1601.

Tucker, K. B. E. See **Patterson, S. J.**, 3572.

Tudorache, G. See **Ionescu, T. D.**, 2475.

Tuemmler, R. See **Kajdas, C.**, 939.

Tuet, L. B., and **Bugaenko, I. F.** Photometric ferricyanide determination of reducing matter in molasses, 1721.

Tuey, G. A. P. See **Wilkinson, J. H.**, 444.

Tuichiev, E. See **Murtazaev, A. M.**, 1712.

Tulus, S. See **Amal, H.**, 2369.

Tulyupa, F. M., Garus, Z. F., and **Usatenko, Yu. I.** Spectrophotometric determination of gold in indium alloys and plating baths, 2600.

Tuma, D. J. See **Hahn, K. J.**, 1534.

Tumanova, A. N. See **Rudnevskii, N. K.**, 2115.

Tumovskii, L. A. See **Kreshkov, A. P.**, 2812.

Tunelero, B. See **Vigneron, C.**, 3721.

Tuppen, R. J. See **Jeffs, K. A.**, 1799.

Turcanu, C. N., and **Zamfir, I.** Paper-chromatographic determination of the radiochemical purity of 4-iodobenzenesulphonic acid labelled with iodine-131 or sulphur-35 and of benzenesulphonic and toluene-*p*-sulphonic acids, 286.

— See also **Bebesel, P. I.**, 2686.

Turchaninova, T. P. See **Grabarov, P. G.**, 1784.

Turczan, J. W. See **Kram, T. C.**, 1149.

Turekian, K. K. Determination of deep-sea deposition of barium, cobalt and silver, 3296.

— See also **Kharkar, D. P.**, 569.

Turel, S. P. See **Goldbeck, C. G.**, 2079.

Turi, B. Chemical analysis of perovskite, 2760.

Turkin, Yu. I. See **Nguyen Van Byu**, 3986.

Turkstra, J. See **Wet, W. J. de**, 2032.

Turner, J. C., and **Clinch, P. G.** Estimation of tutin and hyenanchin in honey. I. Comparison of TLC and intracerebral-injection methods, 2399.

Turoverov, K. K. See **Barenboim, G. M.**, *Book*: Nov.

Turton, G. G. See **Macdonald, A. M. G.**, 220.

Tur'yan, Ya. I. See **Zhantalai, B. P.**, 2323.

Tuseev, N. I. See **Komissarova, L. N.**, 774.

Tusl, J. Determination of fluorine in high-purity compounds of phosphorus with lanthanum - alizarin complexan chelate after separation by a micro-distillation procedure, 3406.

Tvrzicka, E., Dolezal, J., and **Beran, P.** Applications of oscillographic polarography in quantitative analysis. XXV. Calculation of results, 4022.

Tykva, R. See **Simon, H.**, 1313.

Tylzanowska, D. See **Wawrzyczek, W.**, 2635.

Tymchuk, P., Mykytiuk, A., and **Russell, D. S.** Spectrochemical determination of trace impurities in copper using copper fluoride as a carrier-distillation agent, 2592.

Tyminskii, V. G. See **Gorbushina, L. V.,** 2030.

Tyrrell, A. C., Ridley, R. G., and **Daly, N. R.** Improved mass-spectrometric isotopic analysis of molybdenum and uranium by using an amplitude selector for pulse counting with a scintillation ion detector, 1912.

U

Uchiyama, K., Yamada, H., Tochikura, T., and **Ogata, K.** Enzymic determination of L-phenylalanine and L-tyrosine, 2937.

Uchman, M., and **Stachowski, M.** Determination of iron, copper and manganese in vulcanisation accelerators, 2851.

Uden, P. C. See **Belcher, R.,** 2685, and **Mendes-Bezerra, A. E.,** 142.

Ueda, K. See **Yamamoto, Yoshikazu,** 2751.

Ueda, S. See **Kotsuji, K.,** 3356.

Ueda, Shunzo. See **Yamamoto, Yoshikazu,** 2751.

Uettwiller, A., and **Keller, M.** Direct fluorimetric TLC determination of free hydrocortisone, cortisone, corticosterone and compound S in plasma, 3679.

Uhacz, K. See **Chromy, L.,** 2848.

Uhde, W.-J., and **Zydek, G.** TLC determination of substituted 2-hydroxybenzophenones used as u.v. absorbers in plastics, 3596.

— See also **Woggon, H.,** 3830.

Uhle, K. Investigation of organosilicon compounds by TLC, 1462.

Uhlemann, E., and **Mueller, H.** Chelates of β-diketone derivatives. X. Two-phase distribution of 2-(thiobenzoyl)acetophenone and its copper, nickel and cobalt chelates, 1332. Extraction of nickel, cobalt, lead, zinc and copper with 1,1,1-trifluoro-4-mercapto-4-(2-thienyl)but-3-en-2-one, 1973.

— and **Waiblinger, K.** Complex chemistry of the cuproines. V. Spectrophotometric determination of copper with 3,3′-ethylene-4,4′-diphenyl-2,2′-biquinolyl, 731.

— and **Wischnewski, W.** Derivatives of salicyl ketones. II. Schiff bases of aromatic *o*-aminoketones with ethylenediamine: their application to the determination of nickel, 3467.

Uhlik, L., and **Kuca, Z.** Analysis of blast-furnace gas by GSC, 1961.

Ujihira, Y., and **Roy, J. C.** Spectrophotometric determination of traces of nickel as dithio-oxalate complex, 871.

Ujimura, K. See **Funasaka, W.,** 2205.

U.K.A.E.A. See **United Kingdom Atomic Energy Authority.**

Uksusnikov, V. I. See **Shmakotina, Z. V.,** 1060.

Ulbrich, V. Analysis of epoxy-compounds and epoxy-resins, 3597.

Ulrich, J. See **Boulet, R.,** 936.

Ul'yanova, T. M., and **Pavlyuchenko, M. M.** Influence of alcohols on the intensity of emission of alkali-metal atoms in a flame, 44.

Umbreit, G. R. See **Dixon, C. W.,** 3580.

Umemura, J. See **Takenaka, T.,** 1948.

Umilin, V. A., and **Isaicheva, L. V.** Analysis of vinyl acetate by GLC, 1517.

Unay, O. See **Guven, K. C.,** 2977.

Under, O. M. See **Bailey, R. E.,** 2457.

Ungureanu, A. See **Liteanu, C.,** 3304.

Unimed Inc. Determination of chorionic gonadotrophin, 3714.

United Kingdom Atomic Energy Authority. Determination of combined carbon in steel, 863 Apparatus for weighing out a pre-determined weight of material, 1218. Determination o ruthenium-106, ruthenium-103, zirconium-95, niobium-95, cerium-144 and caesium-137 in plutonium dioxide, 2661. Use of an improve flame photometer, 3201. Apparatus for detecting water vapour in a gas, 3907.

United States Atomic Energy Commission. Concentration of ions by using ion-selective membranes, 3181.

Uno, T. [Annual review, 1968]—Pharmaceutica analysis, 1948.

— and **Taniguchi, H.** Fluorimetric determinatio of tetracycline, 2363.

— See also **Nakagawa, T.,** 1497, and **Yamauchi, O.** 1342.

Unrau, A. M. See **Dutton, G. G. S.,** 3509.

Unterhalt, B. TLC of unsaturated oximes. IV NMR spectra of alkyl styryl ketoximes, 3543.

Unterman, H. W., and **Idel, A.** Iodimetric determination of griseofulvin in fermentation broth 1119.

Uny, G., Tran Van Danh, and **Spitz, J.** Volumetri determination of beryllium in the presence o large amounts of uranium, 744.

— See also **Spitz, J.,** 3211.

Upor, E. See **Mohai, M.,** 2638.

Uralets, V. P. See **Golovnya, R. V.,** 3969.

Uray, I., and **Stoicovici, S.** Determination o natural uranium in potable water by measurement of the alpha-activity, 3869.

Urbach, F. L., and **Timnick, A.** Spectrophotometri and spectrofluorimetric study of 3-hydroxyflavone - aluminium chelates in absolute ethano 2015.

Urbain, H., Bacaud, R., Charcosset, H., and **Tournayan, L.** Determination of metallic nickel i nickel - silica - alumina catalysts, 2126.

Urbanski, J. Detection of epoxy-groups in polymeric and low-molecular-weight epoxy-compounds with 2,4-dinitrobenzenesulphonic aci and tetrabutylammonium hydroxide, 1519.

Urbanyi, T., and **Budavari, S.** Colorimetric determination of pyridoxine hydrochloride, 17 hydroxy-7aα,17α-dimethyl-B-homo-A-noroestra-3,6-dione and morphine sulphate, 3785.

— and **Mollica, J. A.** Potential diazo-reagents f colorimetric determination of oestradiol, 2385.

Urbigkit, J. R. See **Weber, O. W. A.,** 2985.

Uricaru, N. See **Arizan, S.,** 3781.

Uriel, J., and **Berges, J.** Characterisation natural inhibitors of trypsin and chymotryps by electrophoresis in acrylamide - agarose ge 1656.

Urmann, E. See **Troemel, M.,** 1943.

Urner, Z. Fluorimetric determination of scandiu 773.

Urvalkova, D. See **Kutil, J.,** 112.

Urwin, J. R., and **Reed, P. J.** Analysis for buty lithium at concentrations used in the intiation polymerisation, 1514.

Usatenko, Yu. I., Arishkevich, A. M., and **Mor A. A.** Spectrophotometric study of tin^{IV} complexes with dimercaptothiopyran-4-one deriv tives, 796.

— See also **Tulyupa, F. M.,** 2600.

Usenko, L. E., and **Kalinchuk, S. V.** Spectrograph analysis of high-purity tin, 2053.

Usher, C. D. See **Sissons, D. J.,** 524.

Usova, E. P., and **Mitina, L. I.** Quantitative GL of *cis*- and *trans*-isomers of 4-aminocyclohexy alkanoic acids, 2236.

enko, V. S. Determination of trace impurities in silver by anodic-stripping voltammetry, 55.
nik, A. See **Bellen, Z.**, 3536.
sumi, I. See **Kodama, T.**, 3691.
sunomiya, K. See **Shigematsu, T.**, 90.
ynok, W. R. See **Szap, P. C.**, 2818.

V

abel', A. S. See **Kaliberdo, L. M.**, 233.
ccaro, R. F., Hicks, S. E., Jannasch, H. W., and **Carey, F. G.** Determination of glucose in sea-water, 3880.
clavinek, J. Thermoelectric determination of silicon in cast iron, 2112.
gina, N. S., and **Fakina, L. K.** Separation of microgram amounts of cerium^{III} and cerium^{IV} from rare-earth-metal mixtures by TLC, 3364.
— and **Volynets, M. P.** TLC in inorganic analysis. II. Separation and determination of rare-earth metals and impurities during analysis of lanthanide preparations, 3368.
il', E. I., Kremer, V. A., and **Chernyaeva, Z. N.** Potentiometric titration of bismuth with thioacetamide, 2693.
inshtein, E. E., Khalitov, R. Sh., Kuteinikov, A. F., and **Egorova, V. A.** Effects of sorptive properties and gas contents of graphites of various types on their use in determination of gases in metals, 3285.
ajgand, V. J., Kiss, T. A., Gaal, F. F., and **Zsigrai, I. J.** Determination of organic bases in non-aqueous solvents by catalytic thermometric titration, 2800.
— See also **Obrenovic-Palgoric, I.**, 98, and **Stefanovic, D. K.**, 4023.
akin, N. A. See **Sokolov, D. N.**, 2611.
alavanis, V. See **Berman, E.**, 360.
alberg, L. S. See **Szivek, J.**, 2498.
alentin, J. G. See **Kirk, A. D.**, 3425.
alentinis, G. See **Mattioni, R.**, 1747.
alis, R. J. See **Slover, H. T.**, 3601.
alkoun, A. See **Kubistova, J.**, 2338.
al'kovskii, D. G., Robas, V. I., Rogozhin, S. V., Polyakova, A. M., Korshak, V. V., Mager, K. A., and **Semyantsev, V. N.** Analysis of esters of cyanoacetic and 2-cyanoacrylic acids and polymeric cyanoacrylates by GLC, 1493.
alverde, J. S. de. See **Sardi de Valverde, J.**
anag, G. Ya. See **Dubur, G. Ya.**, 908.
an Byu, N. See **Nguyen Van Byu.**
and, V. See **Johnson, G. G., jun.**, 1310.
an Dalen, E. See **Dalen, E. van.**
an Danh, T. See **Tran Van Danh.**
andeberg, J. T. Quantitative i.r. analysis of styrene - acrylate - melamine resins, 2844.
an den Berg, A. J. See **Berg, A. J. van den.**
an den Hende, A. See **Hende, A. van den.**
anden Heuvel, W. J. A. GLC of the zearalenone biologically active natural products, 1006. GLC of trimethylsilyl derivatives of several amines of biological interest, 3685.
an den Winkel, P. See **Winkel, P. van den.**
an der Borght, O. See **Borght, O. van der.**
anderdeelen, J., and **Hende, A. van den.** Titrimetric determination of EDTA, 2177.
an Deren, J. M., jun., and **Jaworski, E. G.** Collaborative fluorimetric determination of ethoxyquin in chick tissue and eggs, 1558.
anderhaeghe, H. See **Roovers, J.**, 408.
an der Heiden, D. A. See **Heiden, D. A. van der.**
an der Linden, J. G. M. See **Linden, J. G. M. van der.**
an der Pol, E. W. See **Pol, E. W. van der.**
Van der Veen, J., Medwadowski, B. F., and **Olcott, H. S.** Study of fatty acid losses during saponification and extraction of small lipid samples, 384.
Van der Wal, B. See **Wal, B. van der.**
Van der Walt, C. F. J. See **Walt, C. F. J. van der.**
Van der Wegen, T. P. A. See **Wegen, T. P. A. van der.**
Van Dreal, P. See **Ahuja, J. N.**, 2945.
Van Dreumel, H. J. See **Dreumel, H. J. van.**
Van Dyke, K., and **Szustkiewicz, C.** Automated fluorimetric determination of nucleic acids by the homidium bromide technique, 1087.
Vanhaelen, M. Study of the relationships between R_F value and development in TLC, 3939.
Van Hall, C. E. See **Dow Chemical Co.**, 3885.
Van Kley, H. See **Padayatty, J. D.**, 1100.
Van Kogelenberg, P. H. See **Kogelenberg, P. H. van.**
Van Kooten, W. J. See **Kooten, W. J. van.**
Van Lier, J. E. See **Lier, J. E. van.**
Van Loon, J. C. Determination of fluoride in mineral fluorides by using an ion-specific electrode, 159.
— and **Parissis, C.** Silicate analysis based on the lithium metaborate fusion followed by atomic-absorption spectrometry. I. Determination of silica, 1390.
Van Nispen tot Pannerden, E. B. L. M. See **Pannerden, E. B. L. M. van N. tot.**
Van Os, F. H. L. See **Os, F. H. L. van.**
Van Puymbroeck, S. See **Puymbroeck, S. van.**
Van Raaphorst, J. G. See **Raaphorst, J. G. van.**
VanSickle, G. H., and **Lakin, H. W.** Atomic-absorption spectrophotometric determination of gold in large samples of geological materials, 743.
— See also **Thompson, C. E.**, 2598.
Van Soest, P. J., and **Wine, R. H.** Determination of lignin and cellulose in 'acid detergent fibre' with permanganate, 3108.
Van Stelle, J. E. See **Stelle, J. E. van.**
Van Triet, A. J. See **Triet, A. J. van.**
Van Valkenburg, R. K. See **Barlow, I. C.**, 2643.
Van Wijngaarden, D. See **Wijngaarden, D. van.**
Vanzetti, G., Palatucci, F., and **Cosci, G.** Automated analysis of electrophoresis strips for protein by means of a cyclic electronic scanner, 1888.
Van Zyl, C. R. See **Strelow, F. W. E.**, 2605.
Varcl, L. Direct iodimetric determination of phenazone, 1688.
Varhelyi, C. See **Ripan, R.**, 928, and **Soo, A.**, 917.
Varian Associates Ltd. Use of a gyromagnetic resonance spectrometer, 4011.
Varlamov, M. L., Manakin, G. A., and **Zbrozhek, L. S.** Analysis of a solution containing ammonium sulphate, sulphite, nitrate and nitrite, free ammonia and the ammonium sulphate - nitric oxide complex, 3402.
Varon, A. See **Papa, L. J.**, 231.
Varriale, R. Determination of lactate dehydrogenase isoenzymes in serum, 1649.
Varsanyi, G., Neszmelyi, A., and **Imre, L.** Simultaneous observation of absorption and emission spectra in the i.r. region, 645.
Vartanyan, S. A. See **Melkonyan, S. A.**, 3512.
Vasadi, K. Photometric determination of small amounts of tin in lead - antimony alloys, 2052.
Vasilenko, V. D., Shanya, M. V., and **Bolbas, V. I.** Spectrophotometric study of the interaction of thorium with bromopyrogallol red, 780.
Vasil'ev, I. Ya., Razumova, G. N., and **Shuba, I. D.** Neutron-activation determination of trace impurities in indium arsenide, 3355.
— See also **Shuba, I. D.**, 2049.
Vasil'eva, E. D. Electrophoresis of proteins in acetylated starch gel, 1069.

Vasil'eva, L. N., and **Pats, R. G.** Determination of microgram amounts of antimony and thallium by a.c. polarography with a stationary mercury electrode, 816.

— **Pats, R. G.**, **Lutchenko, N. N.**, and **Yustus, Z. L.** Determination of copper, lead, cadmium and chlorine in zinc sulphate by a.c. polarography, 754.

— **Pats, R. G.**, and **Pozdnyakova, A. A.** Determination of elements by vector a.c. polarography at a stationary mercury electrode, 30.

— and **Yustus, Z. L.** Determination of antimony by a.c. polarography, 814.

— See also **Pats, R. G.**, 2083.

Vasileva, S. V. See **Kreshkov, A. P.**, 3546.

Vasil'eva, T. M., **Boyarskaya, R. K.**, and **Grigor'ev, G. P.** Determination of the acid properties of some lignin preparations by high-frequency titration, 321.

Vasileva-Aleksandrova, P., and **Aleksandrov, A. V.** Determination of vitamin B_1 by means of lithium picrolonate, 481.

Vas'kovskaya, A. A. See **Vas'kovskii, V. E.**, 1450.

Vas'kovskii, V. E., and **Kostetskii, E. Ya.** Spray for the detection of phospholipids in TLC, 2304.

— **Ovodova, R. G.**, **Ovodov, Yu. S.**, **Bykov, V. T.**, and **Vas'kovskaya, A. A.** Identification of some monosaccharides by TLC of their methylated methyl glycosides, 1450.

Vasquez, J. See **Plock, C. E.**, 2660.

Vasserman, A. M., **Surovoi, Yu. N.**, **Kunin, L. L.**, and **Mansurov, V. A.** Determination of oxygen in metals by reductive fusion in a graphite crucible in a current of argon, 3418.

Vasyutinskii, A. I., and **Mogilevskaya, V. I.** Determination of barium in the presence of strontium, calcium and magnesium by precipitation with pyromellitic acid, 751.

Vaughan, J. B. See **Salim, E. F.**, 1143.

Vaughan, R. A. See **Standley, K. J.**, *Book*: Oct.

Vaughn, C. B. See **Orten, J. M.**, 2294.

Vazquez, A. W., and **Gecan, J. S.** Extraction of light filth from ground and granulated pecan nuts, 1739.

VEB Carl Zeiss Jena. Combined spectroscope and microscope, 1280. Temperature-compensated spectrograph, 3196.

VEB Labortechnik Ilmenau. Piston burette, 3899.

Vecsernyes, L. Spectrographic determination of trace impurities in silicon, 104. Spectrographic determination of impurities in high-purity silicon, 3379.

Veeman, W. See **Thijssen, J. H. H.**, 1035.

Veening, H., and **Huber, J. F. K.** Phenomenena that influence the retention of metal fluoroacetylacetonates in GLC, 2085.

Veeravagu, P., **Mizugaki, M.**, and **Wakil, S. J.** Identification of hydroxy-acids, 2296.

Vegh, A. See **Budvari, Z.**, 2389.

Vegner, V., **Arens, A.**, **Stradyn', Ya.**, and **Veis, A.** Polarographic determination of 2-amino-2-phenylindane-1,3-dione, 2816.

Veilby, K. H. See **Joergensen, J. P.**, 1759.

Veis, A. See **Vegner, V.**, 2816.

Vejdelek, Z. J. See **Hoerhammer, L.**, 3755.

Vendrely, R., **Alexandrov, K.**, **Sousa Lechner, M. C. de**, and **Coirault, Y.** Fractionation of RNA by Sephadex - agarose gel electrophoresis, 1089.

Venkappayya, D. See **Aravamudan, G.**, 2804.

Venkatasubramanian, N., and **Ganapathysundaram, B.** Volumetric determination of vanadium^V, 2071.

Venkateswarlu, C. See **Athavale, V. T.**, 118, and **Iyer, S. G.**, 1975.

Verbeek, A. M. See **Slump, P.**, 1052.

Vercellotti, J. R. See **Chang, C. M.**, 1082.

Verdingh, V., and **Lauer, K. F.** Accurate dete mination of microgram quantities of uranium b direct and difference polarography, 99.

Verdizade, A. A., and **Mekhtiev, M. M.** Gravimetr determination of indium with trisodium d hydrogen orthoperiodate, 2020.

Verheesen, P. E. See **Brombacher, P. J.**, 1589.

Vericeanu, G. See **Ripan, R.**, 827, 2615.

Verisova, E. See **Matrka, M.**, 924.

Verkhoturov, G. N., and **Korshakevich, I. I.** Spectr graphic determination of cobalt in products the working of magnesite ores, 2747.

Verkhoturova, R. I. See **Prokop'ev, B. V.**, 254.

Verma, A. C. See **Liu, B. Y. H.**, 1219.

Verma, K. K. See **Parihar, D. B.**, 1525.

Verma, M. R., and **Gupta, P. K.** Paper-chromat graphic separation and identification of titaniun uranium, thorium and zirconium as thiocyana complexes, 1338.

Vesela, D. Use of TLC in the laboratory of hospital pharmacy, 3741.

Veselago, L. I. Use of phosphoric acid duri titrimetric determination of molybdenum, chr mium and vanadium, 2565.

Vespalec, R. See **Kovarik, L.**, 2577.

Vetter, W. See **Vetter-Diechtl, H.**, 1056.

Vetter-Diechtl, H., **Vetter, W.**, **Richter, W.**, an **Biemann, K.** Arginine derivative suitable f mass spectrometry and GLC, 1056.

Vialle, J. See **Guyot, A.**, 1431.

Viani, R. See **Thier, H.-P.**, 3065.

Vicari, C. M. See **Mariani Vicari, C.**

Vicedomini, M. Study of the manganese - glycer system in alkaline solution, 2102.

— See also **Carobene, G.**, 86.

Vickers, G. D. See **Babiec, J. S., jun.**, 234.

Vickers, T. J., and **Merrick, S. P.** Determination mercury by atomic-fluorescence flame spectr metry, 3343.

Vickers Ltd. Automatic laboratory apparatus f analysis of biological fluids, 1232.

Vidal, G., **Galmard, P.**, and **Lanusse, P.** Dete mination of oxygen and nitrogen in niobium spark-source mass spectrometry, 2697.

Viebrock, F. See **Cayle, T.**, 504.

Vigneron, C., **Genetet, B.**, **Streiff, F.**, and **Tunelero,** Fluorimetric determination of amniotic bilirub 3721.

Viktora, J. K., **Baukal, A.**, and **Wolff, F. W.** Aut mated fluorimetric determination of sm amounts of adrenaline and noradrenaline, 2314.

Viktorova, M. E., and **Saltykova, V. S.** Determin tion of tantalum in rocks and minerals by pa tition paper chromatography, 2077.

Villalobos, R. Apparatus for reproducibly packi gas-chromatographic columns, 3164.

— See also **Cayanus, L.**, 307.

Villanua, L., **Carballido, A.**, and **Muniz, J.** Artific food colours. XI. Visible and u.v. spectrophot metry of some water-soluble colours, 3054.

Vincent, H. A. See **Volborth, A.**, 1310.

Vinkler, E., and **Stajer, G.** Identification of pheny butazone by acid hydrolysis or by oxidation wi permanganate, 1690.

Vinogradova, E. N. See **Alimarin, I. P.**, 770, a **Terent'eva, E. A.**, 914.

Vins, V. See **Krivanek, M.**, 1368.

Viossat, B. See **Meunier, J.**, 2995.

Virtanen, R., and **Kivalo, P.** Determination rare-earth metals by high-voltage electrophores 2639.

Vis, H. L. See **Dubois, J.**, 1.

sapaa, A. See **Ant-Wuorinen, O.**, 320.

swanadham, C. R., Joshi, R. G., Akolkar, S. B., Nayar, M. R., and **Rao, S. R. M.** Determination of lead in its ores, 2673.

swanathan, C. V., Basilio, M., Hoevet, S. P., and **Lundberg, W. O.** Reaction TLC in the analysis of alkenyl acyl- and diacyl-phosphatides, 1028.

Hoevet, S. P., and **Lundberg, W. O.** Fractionation of a natural mixture of alkenyl acyl and diacyl ethanolamine phosphatides by argentation adsorption TLC, 1585.

— **Phillips, F.**, and **Lundberg, W. O.** Two-dimensional reaction TLC in the analysis of phosphatide plasmalogens, 1586.

See also **Hoevet, S. P.**, 1027.

ta, O. A., Levier, W. A., and **Litteral, E.** Solvent extraction separations with *N*-phenylbenzohydroxamic acid: applications to micro-determination of niobium and zirconium in uranium, 2657.

toulova, M. See **Kovaric, L.**, 2577.

tozhents, G. Ch. See **Witozenc, H. C.**

acil, F. Extraction of salicylaldehyde thiosemicarbazone by non-polar solvents, 2202.

— and **Koucky, J.** Determination of sulphate in the presence of soluble silicate, 3422.

aszhenko, L. M. Solvent system for the chromatographic detection of small amounts of ouabain in cadaver material, 1000.

iegenthart, J. F. G. See **Tommel, D. K. J.**, 1067.

ismas, T. See **Parker, R. D.**, 1464.

ochten, R. F. C., Hoste, J., Delaunois, A. L., and **Schaepdryver, A. F. de.** Difference spectrofluorimetric determination of adrenaline and noradrenaline, 472.

odar, B. See **Centre National de la Recherche Scientifique**, 1273.

odehnal, J. See **Kossler, I.**, 973.

oellmin, J. A. See **Curtius, H.-C.**, 1313.

ogel, J., Floriani, R., and **Berner, C.** Identification of amines contained in hair dyes, 316.

oggel, K. See **Perl, H.**, 1313.

ogl, K., Schumann, G., and **Kolb, H.** Comparison of common methods for examination of effluents, 3889.

oigt, A. F. See **Wechter, M. A.**, 847.

oigt, R., and **Maa Bared, A. G.** Separation and identification of tuberculostatic antibiotics by TLC, 3750.

oinovitch, I. A., Barbaras, R., Cohort, G., Koelbel, G., Legrand, G., and **Louvrier, J.** Analysis of cement, 2143.

— See also **Koelbel, G.**, 885.

ojinovic, V. See **Coha, F.**, 1185.

olborth, A. Elemental analysis in geochemistry. Part A: Major elements, *Book*: Nov.

— **Fabbi, B. P.**, and **Vincent, H. A.** Total non-destructive analysis of a Canadian standard syenite, 1310.

— See also **Fabbi, B. P.**, 2700.

olke, G. Multiple analysis for silicon, phosphorus, chromium and nickel in cast iron, 1422.

ol'khin, V. V., Kolesova, S. A., Koshcheeva, E. A., and **Zatonskaya, T. P.** Chromatographic separation of rubidium and potassium, 49.

olkmer, G. H. See **Mattern, P. J.**, 3834.

olkov, E. F., Rabinovich, S. I., and **Breshchenko, V. Ya.** Increasing the sensitivity of gas-chromatographic detection of components similar in physico-chemical properties to the carrier gas, 3170.

olkova, A. I. See **Babko, A. K.**, 2016.

olkova, O. I. See **Yanotovskii, M. Ts.**, 442.

olodchenko, T. T. See **Babenko, A. S.**, 4015.

Volodina, M. A., Abdukarimova, M., Gorshkova, T. A., Borodina, V. G., and **Zhardetskaya, V. N.** Determination of sulphur in unsaturated sultones, sultams, sulphones, dialkyl sulphates and esters of arylsulphonic acids, 3490.

— **Abdukarimova, M.**, and **Kozlovskaya, L. V.** Determination of an oxidised form of sulphur in the presence of a reduced form in organic compounds, 3491.

— and **Kon'kova, I. V.** Use of isopropenyl acetate as an acetylation agent in organic analysis, 266. Use of isopropenyl acetate as an acetylation agent in organic analysis for amino-groups, 2152.

Volpe, S. See **Arich, G.**, 2815.

Volynets, M. P. See **Vagina, N. S.**, 3368.

Von Berg, W. See **Berg, W. von.**

Von Borcke, I.-M. See **Borcke, I.-M. von.**

Vondenhof, T., and **Beindorf, H.** Determination of iron, cobalt and nickel when present together in beverages by reaction with 1-(2-pyridylazo)-2-naphthol, 3070.

Vondracek, M. See **Hermansky, M.**, 1843.

Von Hobe, D. See **Hobe, D. von.**

Von Hodenberg, A. See **Hodenberg, A. von.**

Von Tavel, P. See **Tavel, P. von.**

Vorontsova, I. M. See **Zelenetskaya, A. A.**, 2164.

Vorsina, I. A. See **Levin, I. S.**, 818.

Vos, G. See **Conti, R.**, 788, and **Girardi, F.**, 1.

Vosecky, J. See **CKD Dukla, N.P.**, 3881.

Voss, J. B. N. See **Gilchrist, F. M. C.**, 451.

Vossen, P. G. T. Reproducibility of mass-spectrometric analyses of steel and aluminium using an ion-beam chopper, 34.

Vostokov, V. M. See **Khudyakova, T. A.**, 911.

Vreux, J. M., and **Marette, G.** Wavelength dependence of the distribution of relative sensitivity over the photocathodes of photomultipliers, 2480.

Vries, M. J. de. See **Wenzel, K. W. O.**, 3075.

Vukajlovic, D. B. See **Petrovic, S. E.**, 1645.

Vukcevic-Kovacevic, V., and **Seremet, S.** TLC of mixtures of arsenic^{III}, antimony^{III} and bismuth, 127.

Vul'fson, E. K., Ivantsov, L. M., and **Stakheev, Yu. I.** Size-distribution study of some standard silicate rocks, 794.

Vul'fson, N. S. See **Zaretskii, V. I.**, 2915.

Vyakhirev, D. A., Shushunova, A. F., Migunova, I. M., and **Tarabarina, L. P.** Programmed-temperature GLC determination of impurities in phenol, 1468.

Vydra, F., and **Galba, J.** Sorption of hydrolytic products of iron^{III}, aluminium^{III} and chromium^{III} on a silica column, 39.

— and **Stulik, K.** Biamperometric indication in chelatometric titration in acidic solutions, 665.

— See also **Stulik, K.**, 663.

Vylchev, M. Ts. Gravimetric determination of selenium and tellurium in anode slime obtained in copper refining, 735.

Vyncke, W. Laboratory method for expressing fish fluid, 3135. Accelerated micro-diffusion determination of ammonia in cartilaginous fish, 3800.

Vysokova, I. L., Mozgovaya, T. A., Oganezov, K. A., and **Shvangiradze, R. R.** Semi-quantitative spectrographic analysis for impurities in powders with a single calibration graph, 17.

Vysokova, N. N., Lukin, A. M., and **Smirnova, K. A.** Use of magneson IREA as reagent for zinc, 3339.

W

Wachberger, E. See **Kainz, G.**, 211, 1421, 1487.

Wachter, R. de. Trough for descending paper chromatography with a solvent gradient, 3932.

Wacker, P. F., Cord, M. S., Burkhard, D. G., Petersen, J. D., and **Kukol, R. F.** Microwave spectral tables: polyatomic molecules with internal rotation, *Book*: Nov.
Wada, H., and **Nakagawa, G.** Use of the 2-(2-pyridylazo)-*p*-cresol complex with indium as a metal indicator, 2631. Spectrophotometric determination of nickel with 1-(2-thiazolylazo)-2-naphthol, 3466.
Wada, M. See **Chibata, I.,** 3700.
Waddington, D. J. See **Smith, J. R. L.,** 265, 3501.
Waddington, F. B. See **Associated Electrical Industries Ltd.,** 1307.
Waessle, W., and **Sandhoff, K.** Apparatus for application of samples to TLC plates, 1857.
— See also **Harzer, K.,** 1313.
Wagle, N. G. Detection of mowra cake in oil cake, 544.
Wagman, G. H., Bailey, J. V., and **Miller, M. M.** Differential ninhydrin paper-chromatographic assay for the gentamicin complex, 3748.
— **Marquez, J. A.,** and **Weinstein, M. J.** Chromatographic separation of the components of the gentamicin complex, 1120.
Wagner, E. F. Separation of phosphates by TLC and thin-layer electrophoresis. III. Separation and determination of polyphosphates, 3576.
Wagner, Hellmut. See **Grossmann, Heinz,** 2824.
Wagner, Hildebert, and **Hoerhammer, H. P., jun.** TLC detection of istizin in commercial rhubarb extracts, 2360.
— See also **Hoerhammer, L.,** 3755.
Wagner, W. F. See **Smith, W. T., jun.,** 677.
Wahba, S. K., Amin, S. W., and **Rofael, N.** Study of the degradation of dexamethasone in certain pharmaceutical preparations, 2387.
— See also **Karawya, M. S.,** 3627.
Wahlberg, J. S. See **Mountjoy, W.,** 2583.
Waiblinger, K. See **Uhlemann, E.,** 731.
Wainerdi, R. E., and **Menon, M. P.** Comparison of nuclear-activation methods for bromine: instrumental analysis for pesticides in plant material close to the limit of sensitivity, 1.
— See also **Rook, H. L.,** 2624.
Waiss, A. C., jun. See **Johnston, K. M.,** 430.
Wakil, S. J. See **Veeravagu, P.,** 2296.
Waksmundzki, A., and **Rozylo, J.** Degree of saturation of the support with a liquid stationary phase and R_F values in partition TLC, 2455.
Wal, B. van der, Sipma, G., Kettenes, D. K., and **Semper, A. T. J.** Identification of constituents of roasted cacao by GLC, 530.
Waledziak, H. See **Ciecierska-Tworek, Z.,** 3320.
Wales, P. J. See **Mendoza, C. E.,** 526.
Walewska, E. See **Deryng, J.,** 1150, 3786.
Waligora, B., and **Paluch, M.** Potentiometric titration of organic bases in non-conducting media by using an interface voltaic cell, 910.
Walisch, W., and **Humme, G.** Automated ultramicro determination of sulphur in organic compounds, 2779.
— and **Schaefer, K.** Combustion of compounds containing fluorine, phosphorus and metals in an automatic carbon - hydrogen - nitrogen analyser, 2775.
Walkenstein, S. S., Gosnell, C. M., Henderson, E. G., and **Park, J.** Adaptation of a desk-top computer for automated determination of absolute radioactivity, 1933.
Walker, E. G., and **Holdridge, D. A.** Determination of cristobalite and quartz, 2139.
Walker, G. C. See **Supina, W. R.,** 3952.
Walker, J. A. J., and **France, E. D.** Determination of carbonate in sodium, 1979.
— See also **Lambert, M. E.,** 2063.
Walker, J. Q., Kelley, J. D., and **Wolf, C. J.** Study of pressure effects in gas chromatography, 1871.
— and **Wolf, C. J.** Complete identification of gas-chromatographic effluents by using interrupted elution and pyrolysis - GLC, 1242.
Walker, P. L. See **Raven, J. L.,** 2960.
Wall, H., and **Rhodes, C.** Measurement of salt effect in the determination of cadmium by atomic-absorption spectrophotometry, 358.
Wallace, J. E. Micro-determination of phenytoin in biological specimens by u.v. spectrophotometry, 1554.
Walls, H. A. See **Katz, S.,** 1226.
Walraven, J. J., Ladon, A. W., and **Keulemans A. I. M.** Study of chromatographic retention and structure: 'roofing tile' effect of isomers and its fine structure, 3174.
Walsh, A. See **Sullivan, J. V.,** 3214.
Walsh, J. T., McCarthy, K. J., and **Merritt, C., jun** Study of behaviour of detectors under conditions of programmed-cryogenic-temperature gas chromatography, 3957.
Walt, C. F. J. van der. See **Rossouw, J. H.,** 2857.
Walt, S. J. van der. See **Bartel, E. E.,** 3159.
Walter, G. See **Robens, E.,** 3895.
Walters, D. B., Chawla, I. D., and **Rogers, D. W** Determination of alcohol in beverages by phas titration, 1169.
Walters, H. V., and **Adams, P. B.** Study of chemica durability of optical glass, 2478.
Walters, M. I. Evaluation of haemoglobin concentrations obtained with frozen altered Drabkin reagents, 2948.
— and **Gerarde, H. W.** Spectrophotometric micro-determination of bilirubin, 2333.
Walters, R. M. See **Cosgrove, J. F.,** 1373.
Walters, S. M. See **Fricke, F. L.,** 1707.
Walthier, J., and **Jeney, A., jun.** Separation o biological alkylating agents by TLC, 493.
— See also **Jeney, E.,** 491.
Walton, H. F. [Analytical reviews, 1968]—Ion-exchange chromatography, 677.
Wang, K.-T., and **Wu, P.-H.** Polyamide-layer chromatography. XV. Apparatus for electrophoresis, 2477.
— See also **Hsiu, H.-C.,** 1662.
Wang, R.-T., and **Bellmenn, S.** Schematic identification of sulpha drugs by mass spectrometry 2383.
Wang, T. S. Infra-red absorption of the carbony group of semicarbazides, semicarbazones an pyrazole-carboxamides, 2148.
Wanninen, E. Interference of the ammonium io in Mohr's determination of chloride, 2725.
Warburton, J. A., and **Young, L. G.** Neutron activation determination of silver in rain, ha or snow, 3126.
Ware, A. G., and **Marbach, E. P.** Determination o glucose in serum and cerebrospinal fluid by direc application of a glucose oxidase method, 2292.
Ware, G. W. See **Whiting, F. M.,** 3851.
Warf, J. C. Conversion of water into carbon dioxid by reaction with 1,1′-carbonylbi-imidazolyl, 227
Waring, C. See **Speakman, F. P.,** 1876.
Warnecke, D. See **Wolf, F.,** 1967.
Warren, K. S. See **Burtis, C. A.,** 1527.
Warren, R. W., Schneider, A., and **Janoski, E.** Separation and identification of bridgehead substituted methyl- and ethyl-adamantanes, 92
Warriner, J. P. See **Krueger, R. H.,** 3315.
Warth, R. See **Kickhoefen, B.,** 625.
Warzanskyj, W., Diez Moreno, A., and **Almagr Huertas, V.** Use of an all-transistorised potentia controlled coulometric titrator, 3248.

Wasa, T., and **Musha, S.** Polarographic behaviour of aliphatic aldehydes in buffer solutions containing *o*-phenylenediamine, 3510.

Washuettl, J. See **Bancher, E.,** 2933.

Wasilewska, L. TLC of complexes of metals with 1-(2-pyridylazo)-2-naphthol. I. Complexes with copper^{II}, cobalt^{II} and iron^{II}, 25.

Wasilewska, M. See **Lubecki, A.,** 3189.

Wasserfall, F. See **Lembke, A.,** 1158.

Wassner, H. P. See **Belitz, H.-D.,** 3050.

Wasson, J. T. See **Tandon, S. N.,** 1389.

Watanabe, A. Study of spurious radiation in Littrow-mounted grating monochromators, 2479.

Watanabe, E. See **Sasaki, Shin-ichi,** 1913.

Watanabe, H., and **Akatsuka, K.** Solvent extraction of cadmium^{II} from aqueous chloride or bromide solutions by trioctylamine, 65. Extraction of indium from sulphuric acid solution with high-molecular-weight amines, 2632.

Watanabe, S. See **Okura, Y.,** 1948.

Watanabe, Tadao. See **Tomura, T.,** 1310.

Watanabe, Toshio. See **Okura, Y.,** 1948.

Watanuki, R. See **Ikekawa, N.,** 2306.

Waterbury, G. R. See **Hakkila, E. A.,** 739.

Waterbury, J. F. See **Devlin, J. J.,** 2495.

Water Pollution Control Federation. See **American Public Health Association,** 3124.

Water Research Association. Improvements in and relating to gas-sampling probes used with apparatus for detecting liquid leaks in underground pipe-lines, 3143.

Waters, M. D. See **Hill, H. D.,** 3732.

Waters, R. M., and **Flanagan, D. D.** Application of the Nano-Jector to the GLC of solid samples, 1865.

Waters, W. E. See **Keyser, J. W.,** 2901.

Watkins, D. A. M. See **Clifford, D. R.,** 554.

Watkins, P. J. See **Gibbard, S.,** 390.

Watkins, W. B. See **Farrelly, R. O.,** 1605.

Watson-Walker, J. See **Burns, D. T.,** 1676.

Watt, W. B. See **Jennings, A. C.,** 1614.

Watts, D. C. See **Reid, J. D.,** 2506.

Watts, R. R. See **Storherr, R. W.,** 1808.

Watts, R. W. E. See **Chalmers, R. A.,** 2337.

Watts, S. H. See **Associated Electrical Industries Ltd.,** 1307.

Wawrzyczek, W., Tylzanowska, D., and **Jacyk, A.** Potentiometric and indicator titrations, in either direction, of thallium^{III} chloride solution with sodium sulphite, dithionite or metabisulphite solution, 2635.

Wawschinek, O., Paletta, B., and **Beyer, W.** Identification and determination of cyanide in biological material, 2893.

— See also **Likussar, W.,** 170, 2745.

Wayland, L. G., and **Weiss, P. J.** Identification of antibiotics in sensitivity discs, 1673.

Wdowin, A. See **Kanski, R.,** 2215.

Weatherell, J. A., and **Robinson, C.** Micro-determination of carbonate in dental enamel, 1011.

Weaver, V. C. Ion-exchange cellulose techniques: review, 1313.

Weaving, G. S. See **National Research Development Corporation,** 3903.

Webb, M. S. W., and **Wordingham, M. L.** Spectrographic analysis of a wide range of materials, 2550.

Weber, J. D. See **Levine, J.,** 1129.

Weber, K. See **Wilhelm, K.,** 556.

Weber, O. W. A., Urbigkit, J. R., and **Senkowski, B. Z.** Automated determination of pyridoxol in multivitamin tablets, 2985.

Weberling, R. P. See **Cukor, P.,** 1372, and **Lanning, E. W.,** 135.

Webster, G. R. See **Khan, S. U.,** 540, 2461.

Webster, H. L. See **Wrigley, C. W.,** 424.

Wechter, M. A., and **Voigt, A. F.** Determination of lanthanum, holmium and uranium in their tungsten bronzes by thermal-neutron activation, 847.

Weder, J. See **Belitz, H.-D.,** 3050.

Wegen, T. P. A. van der. Identification of some local anaesthetics and antihistamine drugs by crystal reactions. IV, 487.

Weglowska, W. See **Derlikowski, J.,** 1683.

Wehking, W. See **Serrini, G.,** 2780.

Wehle, H. Detection and determination of hexachlorophane, of pentachlorophenol and of trichlorophenol in the presence of one another and of other phenols, 1501.

Weicker, H. See **Grasslin, D.,** 2898.

Weidemann, G., and **Hillmann, G.** Photometric determination of the activity of serum lipase with 4-nitrophenyl oleate as substrate, 1313.

Weil, J. T. TLC of *NN*-disubstituted hydroxylamines and stable nitroxides, 3828.

Weimann, T. See **Krause, A.,** 721.

Weiner, L. M. See **Baginski, E. S.,** 435, and **Zak, B.,** 1081.

Weinryb, E. Application of the electron microprobe to the X-ray emission analysis of biological material, 1313.

Weinstein, L. H. See **MacLean, D. C.,** 1198.

Weinstein, M. J. See **Wagman, G. H.,** 1120.

Weippl, G. See **Pantlitschko, M.,** 432.

Weis, G. Analysis of propylene oxide - ethylene oxide block copolymers by i.r. spectrophotometry, 2241.

Weisenberg, E., Gertner, S., and **Schoenberg, J.** Determination of malathion in wheat grains, 3116.

Weiss, D. Determination of low concentrations of iodine in sodium chloride, 2579.

Weiss, P. J. See **Wayland, L. G.,** 1673.

Weissler, A. See **White, C. E.,** 677.

Weisz, H., and **Goenner, M.** Iodimetric determination of copper, nickel or cobalt, 28.

Weitz, W. E., jun. See **Folsom, T. R.,** 1207.

Welcher, G. G. See **Kriege, O. H.,** 3359.

Welday, E. E. See **Baird, A. K.,** 1310.

Welford, G. A. See **Chiotis, E. L.,** 190.

Welling, W. Use of a modified selector valve in recycling gel chromatography, 3928.

Wellmann, E., Loeffler, G., and **Trautschold, I.** Electrophoretic separation of the hexokinases in adipose tissue, 1313.

Wells, F. H. See **MacLennan, D. N.,** 5.

Welsh, B. A. See **Zak, B.,** 1081.

Welz, B. See **Ringhardtz, I.,** 1313.

Wender, S. H. See **Wilson, J. L.,** 2908, and **Winkler, B. C.,** 3651.

Wendling, R. See **Leblond, A. M.,** 3448.

Wendt, R. H. Computer calculation of atomic-absorption spectrophotometric data, 1277.

Wentworth, W. E. See **Fenimore, D. C.,** 3962.

Wenzel, K. W. O., and **Vries, M. J. de.** Investigation of muscat aroma, 3075.

Werber, O. See **Pardun, H.,** 3823.

Werle, E. See **Lorenz, W.,** 1313.

Werner, G. See **Fischer, H. A.,** 1313, **Moeller, H.,** 1313, and **Seiler, N.,** 1313.

Werner, R. L. See **Haken, J. K.,** 2841.

Wertheim, G. K. Magnetic critical-point behaviour in fluorides of iron, 1311.

Wesolowski, J. W., Blaug, S. M., Chin, T.-F., and **Lach, J. L.** Kinetics of degradation of glutethimide, 1684.

Wessel, J. R. Collaborative study of three dual-detection systems for GLC analysis for residues of multiple chlorinated and organophosphorus pesticides, 1806.

Wesselman, H. J. Analysis of terpin hydrate and codeine elixir by GLC, 3744.

— and **Koch, W. L.** Determination of methapyrilene fumarate, ephedrine hydrochloride and codeine phosphate in syrup by GLC, 1716.

West, C. D., Birke, R. L., and **Hume, D. N.** Determination of fluoride by reaction with thorium chloranilate, 155.

West, F. K. See **West, P. W.,** 677.

West, H. F. See **Murphy, D.,** 2310.

West, P. W., and **Ramakrishna, T. V.** Catalytic determination of traces of selenium, 1406.

— and **West, F. K.** [Analytical reviews, 1968]—Inorganic microchemical and trace analysis, 677.

— See also **Sachdev, S. L.,** 1816.

West, T. S., and **Williams, X. K.** Atomic-fluorescence spectrometry of magnesium with a high-density hollow-cathode lamp as line source, 2602.

— See also **Aldous, K. M.,** 1894, **Dagnall, R. M.,** 640, 1896, 2672, 2690, 3206, 3386, **Fleet, B.,** 567, **Hingle, D. N.,** 3331, and **Kirkbright, G. F.,** 813, 1334, 1402, 3200.

Westerboer, S. See **Henke, G.,** 1543.

Westinghouse Electric Corporation. Determination of contaminants in water with a chemical constituent sampler, 3867.

Westphal, O. See **Mayer, H.,** 378.

Wet, W. J. de, and **Turkstra, J.** Determination of uranium-235 to uranium-238 ratios by activation analysis utilising high-resolution gamma-ray spectrometry, 2032.

Weyers, J., and **Gancarczyk, T.** Dithiosalicylic acid as analytical reagent. I. Determination of nickel, 870.

Weygand, F. Trend of development in biochemical analysis, 1313.

Weymouth, J. W., Costello, J., Schuster, S., and **Schulze, P.** Continuous averaging of X-ray diffraction data by using a multi-channel analyser, 1263.

Wharry, D. M. See **Morris, L. J.,** 251.

Wheals, B. B. See **Ruzicka, J. H.,** 552.

Wheat, J. L. Automated tungstophosphate determination of uric acid using sodium hydroxide as the alkali, 2925.

Wheaton, J. E. G. Use of an u.v. pulsed radiation source, 643.

Wheeler, G. V. See **Woodriff, R. A.,** 3209.

Whereat, A. F., Snydman, D. R., and **Barness, L. A.** TLC of citric acid-cycle intermediates, pyruvate and lactate, 3657.

Wherrett, J. R. See **Howse, D. C.,** 440.

Whidby, J. F. See **Leyden, D. E.,** 852.

Whigham, W. R. Fractionation of 17-oxogenic steroids by solvent partition, 2916.

White, C. E., and **Weissler, A.** [Analytical reviews, 1968]—Fluorimetric analysis, 677.

White, E. W. See **Hach, J. T.,** 1310.

White, L. M., and **Gauger, M. A.** Adaptation of a spectrophotometer for automated continuous colorimetric analysis, 1915.

— See also **Olson, A. C.,** 3699, and **Secor, G. E.,** 2095.

White, R. H. See **Howard, J. W.,** 1727.

Whitehead, N. E. See **Brooks, R. R.,** 3998.

Whiting, F. M., Stull, J. W., Brown, W. H., Milbrath, M., and **Ware, G. W.** Comparison of extraction methods for determination of DDT, 1,1-dichloro-2,2-bis-(4-chlorophenyl)ethylene and TDE in lucerne hay, 3851.

Whiting, M. C. See **Campbell, N. C. G.,** 230.

Whitney, R. McL. See **Muck, G. A.,** 509.

Whittem, R. N. See **Champion, K. P.,** 3606.

Whittington, D., and **Millar, J. R.** Study of i.r. absorption spectra of ion-exchange resins, 1879.

Wicek, H. B. Quantitative expression of ethanolaminolysis of glycerides by determination of the 'mono-ethanolamine index', 535.

Wichmann, H. See **Markl, P.,** 783, 810.

Wickersheim, K. A., Buchanan, R. A., and **Sobon, L. E.** Cathodoluminescence determination of rare-earth metals in yttria, 776.

Widelock, D. See **Searle, B. G.,** 2936.

Wiechmann, M. See **Seiler, N.,** 2940.

Wieczorek, H. Determination of small quantities of carbon monoxide in biological material, 2892.

Wiedeking, E. See **Kolb, B.,** 604, 1313.

Wieland, T. Chromatographic methods and gel filtration: review, 1313.

Wiele, H., and **Kasten, G.** Combustion and determination of inorganic substances containing sulphur and fluorine and of organic substances containing phosphorus, arsenic, vanadium and lead by the Wickbold method with use of a metal burner, 144.

Wiener, J. D., and **Backer, E. T.** Separation of hormonal and exogenous iodine in serum by means of a cation-exchange resin, 997.

Wiersma, J. H., and **Lott, P. F.** Complexometric titration of trace amounts of metal ions by means of instrumentally measured fluorimetric end-points, 2552. Radiometric and spectrophotometric determination of trace amounts of selenium by means of 3,3′-diaminobenzidine as the initial reagent, 2705.

Wiesenberger, E. Projection experiment for the demonstration of electrolytic reactions, 655.

Wieteska, E. Determination of trace amounts of copper^{II} in organic and some inorganic reagents with 2-hydroxy-2′-(2-hydroxy-1-naphthylazo)-5-methylazoxybenzene, 903.

Wigand, W. See **Kiermeier, F.,** 499.

Wijesekera, R. O. B. See **Pasupathy, C. V.,** 1757, and **Senanayake, V. M.,** 3016.

Wijngaarden, D. van, Thyssen, L. A., and **Osinga, T. D.** Determination of the fatty acid composition of cacao butter by GLC, 3084.

Wilburn, F. W., Hesford, J. R., and **Flower, J. R.** Use of an analogue to improve the performance of a differential thermal analysis apparatus, 1936.

Wilcox, M. See **Glaze, N. C.,** 1793.

Wilder, E. T. Determination of the herbicide dimethylammonium salt of 2,4-D in surface water by GLC, 3875.

Wilderman, M., and **Shuman, H.** Extraction procedures for colorimetric determination of DDT residues in firm fruits and in hay, 3057.

Wildfeuer, I., and **Acker, L.** Determination of carotenoids in bakery products and their raw materials, 3793.

Wilhelm, G. See **Lehmann, G.,** 2256.

Wilhelm, K., Matkovic, J., and **Weber, K.** Determination of insecticidal carbamates by means of the oxidation reaction of *o*-dianisidine, 556.

Wilk, E. K., Gitlow, S. E., and **Bertani, L. M.** Modified Taniguchi determination in urine of normetadrenaline and metadrenaline, 1044.

Wilk, M., and **Brill, U.** Activating action of iodine vapour on alkaloids adsorbed in reaction chromatography, 1110.

— **Hoppe, U., Taupp, W., Girke, W., Rochlitz, J.,** and **Brill, U.** Reaction chromatography: reactions in the activated adsorbed state, 1313.

Wilkes, C. E. See **Gianelos, J.,** 1310.

Wilkie, A. See **Keay, J.,** 592.

Wilkinson, J. H., Jenkins, F. P., and **Tuey, G. A. P.** Effects of condensation products of 2-oxobutyric acid on lactate dehydrogenase activity, 444.

Wilks, P. A., jun. Survey of i.r. spectrophotometers: review, 4007.

Willeboordse, F., Quick, Q., and **Bishop, E. T.** Direct GLC analysis of isomeric toluenediamines, 3603.

Willeborts, G. See **Moeken, H. H. P.,** 1384.

Willett, D. N., Peterson, H. P., and **Moubry, R. J.** Polarographic determination of nitrates in silage, 1786.

Williams, C. M. See **Greer, M.,** 3684.

Williams, D. R. Atomic-absorption spectrophotometric analysis of animal feeds, 2421.

Williams, F. E. [Analytical reviews, 1968]—Analytical distillation, 677.

Williams, H. E., and **Smith, L. H.** Identification and determination of glyceric acid in human urine, 385.

Williams, I. H. Effect of water on Soxhlet extraction of some organochlorine insecticides from soil, 1797.

Williams, J. J. B. See **Cherry, J.,** 789.

Williams, J. P. See **Maxwell, M. A. B.,** 2911.

Williams, P. M. Determination of stable carbon isotopes in the dissolved organic matter of the sea, 3613.

Williams, R. T. Metabolism of foreign compounds in man and animals, 1947.

Williams, W. T. See **McLaren, K. G.,** 1833.

Williams, X. K. See **West, T. S.,** 2602.

Willis, D. E. Trapping technique for sample injection into open-tubular chromatographic columns, 3947.

Willis, J. B. Atomic-absorption spectrophotometry with high-temperature flames, 3213.

Wilmshurst, T. H. Properties of the balanced-detector ESR spectrometer, 651.

Wilrich, P.-T. See **Batel, W.,** *Book*: Nov.

Wilson, D. R. See **Woollerton, G. R.,** 1993.

Wilson, J. L., Dunlap, W. J., and **Wender, S. H.** Determination of chlorogenic acid in plant tissue by combined poly(vinylpyrrolidone) column chromatography and GLC, 2908.

Wilson, L. Atomic-absorption spectrometric determination of chromium and zirconium in aluminium alloys, 73.

Wilson, R. H. See **Roberts, R. F.,** 726, 1348.

Wilson, W. E. See **Maume, B.,** 1116.

Wimberley, J. W. Turbidimetric determination of sulphate without the use of additives, 3421.

Winchester, J. W. Neutron-activation analysis for lead halide pollution aerosols, 1.

Wine, R. H. See **Van Soest, P. J.,** 3108.

Winefordner, J. D. See **Hood, L. V. S.,** 3553.

Winkel, P. van den, Corte, F. de, Speecke, A., and **Hoste, J.** Adsorption of some elements in acetic acid medium on Dowex 1-X8, 3277.

— **Speecke, A.,** and **Hoste, J.** Separation scheme for determination of nine elements in biological material, 1.

— See also **Corte, F. de,** 2561.

Winkler, B. C., Dunlap, W. J., Rohrbaugh, L. M., and **Wender, S. H.** TLC - fluorimetric determination of scopolin and scopoletin in tobacco, 3651.

Winkler, R. A. See **Farley, L. L.,** 1491.

Winowski, Z. Separation of cations of analytical groups 4 and 5 on anionites. II. Separation of barium from calcium, 2606.

Winter, E. See **Kulick, I.,** 3992.

Winter, L. D. See **Belisle, J.,** 1435.

Winzler, R. J. See **Lehnhardt, W. F.,** 1624.

Wirth, H. See **Hannig, K.,** 1313.

Wischnewski, W. See **Uhlemann, E.,** 3467.

Wiskerchen, J. Collaborative study of determination of sodium lauryl sulphate in egg white, 1731.

Wisniewski, W., and **Gorta, T.** Chromatographic - fluorimetric micro-determination of hydrastine and hydrastinine in liquid extract and rhizome of golden seal, 1667.

— and **Piasecka, H.** Conductimetric micro-determination of atropine in dry extract of *Atropa belladonna* L. leaves, 460.

Wisser, K. Simultaneous determination of the catechol oxidase and cresol oxidase activities of *o*-diphenol oxidase, 1313.

Wit, W. M. de. See **Kamp, P. E.,** 3692.

With, T. K. TLC of free porphyrins on talc, 1075.

Withers, M. K. GLC of polyethers. I. Polyoxyethylene glycols, 964.

Witozenc, H. C. See **Belov, V. I.,** 2223, **Berzin, A. K.,** 2061, and **Pradzynski, A.,** 2590.

Witter, M. J. See **Fresen, J. A.,** 3619.

Wittmann, B. See **Eberhagen, D.,** 1878.

Wittry, D. B. See **Andersen, C. A.,** 2488.

Woggon, H., Jehle, D., and **Uhde, W.-J.** Determination of esters of 3-aminocrotonic acid after migration into foods: testing of plastic commodities, 3830.

Wohlleben, G. Reproducibility in column chromatography and TLC, 1313.

Wohlrabe, W., and **Seiffarth, K.** Use of an automatic sample-changer with an i.r. spectrophotometer, 2510.

Wojdala, T. Choice of optimum analytical wavelengths in spectrophotometric analysis of multicomponent systems, 1278.

— See also **Kachlik-Olasinska, B.,** 2214.

Wojnowski, A. See **Akerman, K.,** 3433.

Wojtowicz, P. F., and **Stauffer, L. J.** Up-dating analytical constants for determining the egg content of food, 1725.

Wolen, R. L., and **Gruber, C. M., jun.** Determination of dextropropoxyphene in human plasma by gas chromatography, 2281.

Wolf, C. J. See **Walker, J. Q.,** 1242, 1871.

Wolf, F., Hauptmann, R., and **Warnecke, D.** Synthesis and metal-ion selectivity of 4-vinylpyridine - acrylonitrile - acrylic acid and 4-vinylpyridine - acrylonitrile - *p*-divinylbenzene copolymers, 1967.

— and **Heyer, W.** Use of modified porous glasses as supports in gas chromatography, 3951.

— and **Mlytz, H.** Influence of the structure of bipolar ion-exchange resins on the separation of mixtures of electrolytes and non-electrolytes, 1262.

Wolff, D., and **Huehnerbein, B.** Photometric determination of procaine in injections, 3766.

Wolff, F. W. See **Viktora, J. K.,** 2314.

Wollrab, V. See **Henderson, W.,** 2827.

Wolowelsky, J. See **Gressel, J.,** 3006.

Wolstenholme, W. A. See **Barber, M.,** 258.

Wolters, F. M. See **Anselmo, V. C.,** 125.

Wong, K. Y. See **Jervis, R. E.,** 1.

Wong, P.-Y. See **Chau, Y.-K.,** 3878.

Wong, Y.-C. Determination of yttrium oxide in xenotime and monazite concentrates by X-ray fluorescence, 3360.

Wood, A. J., Causer, R., and **Milner, G. W. C.** Potentiometric titrator, 3244.

Wood, D. F., and **Jones, J. T.** Spectrophotometric determination of niobium in zirconium, titanium and other metals with 4-(2-pyridylazo)resorcinol, 139.

Wood, D. L. See **Ballman, A. A.,** 4003, and **Burke, W. E.,** 1310.

Wood, E. C., Nixon, F., and **Smink, J.** Determination of dimexan in crops, 545.

Wood, E. J., Simler, J., and **Borg Bonello, B.** Apparatus for dialysing small samples of protein solution, 1837.

Wood, G. A. See **Coleman, R. F.,** 884.

Wood, N. F. See **Ruzicka, J. H.,** 552.

Wood, Randall, and **Snyder, F.** Determination of alk-1-enyl and alkyl ethers of glycerol in neutral lipids and phospholipids, 403.

Wood, Robert. See **Cohen, I. C.,** 3861.

Wood, T. Detection of pyruvate and phosphoenolpyruvate on chromatograms, 1022. Detection and identification of intermediates of the pentose phosphate cycle and related compounds, 2905.

Wood, W. A. Fluorescence reactions for determination of progesterone, 1037.

Woodburn, S. I., and **Magee, R. J.** Polarographic determination of cobalt and nickel in a thiourea - thiocyanate medium, 188.

Woodriff, R. Resistance to the introduction of solids and liquids into high-energy spectroscopic sources, 2491.

— and **Stone, R. W.** Hot-tube atomic-absorption spectrochemistry, 3997.

— **Stone, R. W.,** and **Held, A. M.** Electrothermal atomisation for atomic-absorption analysis, 1314.

— **Wheeler, G. V.,** and **Ryder, W. A.** Hollow-cathode lamp for use in emission and absorption, 3209.

Woodroof, J. G. See **Li, K. C.,** 2403.

Woods, L. A. See **Peurifoy, P. V.,** 1486, and **Shell Internationale Research Maatschappij N.V.,** 950.

Woodward, C., and **Freiser, H.** Use of 3-hydroxy-4-(6-hydroxy-*m*-tolylazo)naphthalene-1-sulphonic acid as a spectrophotometric reagent for aluminium, 71.

Woolf, J. E. See **Altenau, A. G.,** 239.

Woollen, A. Food industries manual, *Book*: Nov.

Woollerton, G. R., Wilson, D. R., and **Bennett, W. J.** Study of inclusions in copper rod by optical emission spectroscopy, 1993.

Wooltorton, L. S. C. See **Rhodes, M. J. C.,** 437.

Wordingham, M. L. See **Webb, M. S. W.,** 2550.

Wormwood, M., and **Taylor, D. M.** Determination of hepatic copper in study of cirrhosis, 1.

Woziwodzki, H. See **Hoffmann, D.,** 2295.

Wratten, N. See **Pitot, H. C.,** 443.

Wright, A. N. See **Beynon, K. I.,** 2427.

Wright, G. F. See **Roller, K.,** 3774.

Wrigley, C. W., and **Webster, H. L.** Spectrometric estimation of protein in the presence of u.v.-absorbing impurities, 424.

Wronski, M. Detection and determination of some nitrogen compounds by means of tetramercurated fluorescein, 3693.

Wu, A., and **Smith, W. T., jun.** Pinacolylpyridinium bromide as reagent for basic amines, 3522.

Wu, P.-H. See **Wang, K.-T.,** 2477.

Wuelfert-Heldrich, C. See **Dieterle, P.,** 381.

Wuntke, K. See **Pyl, T.,** 967.

Wurzbacher, G. See **Robens, E.,** 3895.

Y

Yadava, K. L. See **Chandra, S.,** 243.

Yagi, S. See **Ishii, Y.,** 2233.

Yaguchi, M., and **Tarassuk, N. P.** Gel filtration of acid casein and skimmed milk on Sephadex, 514.

Yakerson, V. I., Gorskaya, L. A., and **Rubinshtein, A. M.** GLC of high-molecular-weight aliphatic ketones, 2171.

Yakovlev, P. Ya. See **Orzhekhovskaya, A. I.,** 1387.

Yakovlev, Yu. V. See **Alimarin, I. P.,** 1374.

Yakovleva, E. F. See **Dubrovina, I. M.,** 3454, **Lashko, N. F.,** 3452, and **Orzhekhovskaya, A. I.,** 1378

Yakunina, G. M. See **Novikova, E. S.,** 124.

Yalcindag, O. N., and **Onur, E.** Micro-crystallographic and chemical identification of some new organic drugs containing basic nitrogen atoms. IV, 1701.

Yamabe, T. [Annual review, 1968]—Ion exchange, 1948.

Yamada, H. See **Uchiyama, K.,** 2937.

Yamada, S. See **Chibata, I.,** 3700.

Yamaguchi, S., and **Katsurai, T.** Selective separation of cerium^{IV} oxide from an yttrium - lanthanum - cerium^{IV} solution by heating in an autoclave, 92.

Yamamoto, M. See **Chibata, I.,** 3700.

Yamamoto, N. See **Yanagisawa, S.,** 1948.

Yamamoto, O., Suzuki, T., Yanagisawa, M., Hayamizu, K., and **Ohnishi, M.** Graphic representation of NMR proton chemical shifts for the acyclic methine group, 226.

Yamamoto, T. See **Takahashi, T.,** 2200.

Yamamoto, Yoshikazu, Ueda, K., and **Ueda, Shunzo.** Extraction - spectrophotometry of nickel with salicylaldoxime and a successive extraction of copper and nickel, 2751.

Yamamoto, Yuroku, Hiiro, K., and **Tanaka, Takashi.** Extraction - spectrophotometry of anions with metal-chelate cations. XXXI. Indirect spectrophotometric determination of sulphate ions by extraction with tris-(1,10-phenanthroline) - iron^{II} - chloranilate, 2440.

— **Kumamaru, T., Hayashi, Y.,** and **Otani, Y.** Extraction - spectrophotometry of anions with metal-chelate cations. XXVIII. Determination of a small amount of iodine by atomic-absorption spectrometry with cadmium as light source, 2101.

— **Kumamaru, T., Hayashi, Y.,** and **Tarumoto, T.** [Annual review, 1968]—Solvent extraction, 1948.

— **Okamoto, N.,** and **Tao, Eiji.** Extraction - spectrophotometry of anions with metal-chelate cations. XXXII. Extraction - spectrophotometry of nitrate ions, 2064.

Yamashita, K., and **Imai, H.** Studies on photopolarography. I. Polarographic behaviour of trioxalatoferrate^{III} ions under u.v. irradiation, 2699.

— See also **Imai, H.,** 1948.

Yamauchi, E. See **Sasaki, Shin-ichi,** 1913.

Yamauchi, O., Tanaka, H., and **Uno, T.** Use of imidazole derivatives as chelating agents. V. Investigations of azoimidazoles as metallochromic indicators, 1342.

Yamazaki, W. T. See **Donelson, J. R.,** 506.

Yamazaki, Y. See **Ogura, H.,** 1125.

Yampol'skii, M. Z. See **Salikhov, V. D.,** 2019, 3352.

Yanagisawa, I., and **Yoshikawa, H.** Micro-determination of bromine in cerebrospinal fluid, 3621.

Yanagisawa, M. See **Yamamoto, O.,** 226.

Yanagisawa, S., Hashimoto, Y., and **Yamamoto, N.** [Annual review, 1968]—Air-pollution measurements, 1948.

Yanak, M. M. See **Davis, C. M.,** 1310.

Yang, K.-L. See **Hsiu, H.-C.,** 1662.

Yang, T.-I., and **Su, J.-C.** Analysis of nucleoside- and nucleotide-containing pharmaceutical preparations, 1147.

Yankova, M. Determination of the antihypertensive Depreton, 2390.

Yankovskii, A. A. See **Samadov, K.,** 3297, 3985.

Yanotovskii, M. Ts., Kozlov, E. I., Obol'nikova, E. A., Volkova, O. I., and **Samokhvalov, G. I.** GLC of K-group vitamins and ubiquinones, 442.

anson, E. Yu. See **Apsit, A. A.**, 3278.
ap, F. Y. See **Thomsen, J. S.**, 1266.
ariv, S. See **Lurie, D.**, 2761.
aroshenko, G. F. See **Temkina, V. Ya.**, 833.
ashin, Ya. I. See **Kiselev, A. V.**, 3169, and *Book*: Nov.
Yasuda, K. See **Okura, Y.**, 1948.
Yasuda, S. K. Micro-determination of polystyrene in explosive mixtures by pyrolytic GLC, 2852.
Yatrudakis, S. M. See **Zhdanov, A. K.**, 722, 3268, 3269, 3270.
Yatsenko, S. S. See **Nabivach, V. M.**, 3529.
Yatsimirskii, K. B., Kalinina, V. E., Morozova, R. P., and **Fedorova, T. I.** Catalytic properties of compounds of elements of the platinum group in solution, 2569.
Yee, C., and **Cohen, H. P.** Modification of the Kmetec micro-assay of succinate, 386.
Yegin, M. Solvents containing s-butyl alcohol instead of butanol for paper-chromatographic detection of amino-acids, 3694.
Yen, T. F. ESR of metal complexes, *Book*: Nov.
Yildiz, A., Kissinger, P. T., and **Reilley, C. N.** Evaluation of an improved thin-layer electrode, 2520.
Yissum Research Development Co. Application of an improved spectrometer, 3976.
Yocum, C. F. See **Sumyk, G. B.**, 1572.
Yoder, D. S. See **Bryant, R.**, 1137.
Yokoyama, A. See **Tanaka, H.**, 2124.
Yokoyama, M., and **Takeshima, T.** Spectrophotometric determination of nickel with 2-aminocyclopent-1-ene-1-carbodithioic acid, 2121.
Yoneya, T. See **Ito, Yuki**, 3719.
Yoshida, T. See **Katsuki, H.**, 3661.
Yoshii, E. See **Sakurai, K.**, 2982.
Yoshikawa, H. See **Yanagisawa, I.**, 3621.
Yoshimi, T., and **Lipsett, M. B.** Determination of plasma progesterone, 1038.
Yoshimura, H. See **Aramaki, H.**, 1664.
Yoshimura, Y. See **Kotsuji, K.**, 3356.
Yoshioka, T., Gohshi, Y., and **Kohno, H.** Determination of ferrous and ferric iron by using the Mossbauer effect, 205.
Yotsuyanagi, T. See **Goto, Katsumi,** 2013.
Young, D. S. Systematic screening for abnormal urinary amino-acids and sugars, 1528.
— See also **Peterson, J. I.**, 1562.
Young, E. J. See **Campbell, R. H.**, 345.
Young, L. G. See **Warburton, J. A.**, 3126.
Young, L. M. See **Archer, V. S.**, 3347.
Young, M. G. See **Ewing, G. W.**, 3217.
Young, P. A. See **Sullivan, J. V.**, 2750.
Young, T. L. See **Ratcliffe, D. B.**, 2142.
Youssef, F. G., and **Allen, D. M.** Determination of steam-volatile fatty acids in rumen liquor, 1576.
Youssif, Y. S. See **Kabiel, A. M.**, 2279.
Yudelevich, I. G. See **Lazebnaya, G. V.**, 15, and **Malakhov, V. V.**, 3442.
Yuditskaya, A. I. Paper-chromatographic determination of simple phenols, 502.
Yule, H. P. Computation of lithium-drifted germanium detector peak areas for activation analysis and gamma-ray spectrometry, 4027.
Yurist, I. M. Use of polyethylenepolyamine as a masking reagent for nickel, zinc and cadmium in the complexometric determination of lead in alloys, 1393.
Yurkina, L. P. See **Kondratov, V. K.**, 294.
Yurkov, Yu. A. Absorptiometric measurement of isoenzymes on electropherograms, 1648.
Yustus, Z. L. See **Vasil'eva, L. N.**, 754, 814.
Yuzhin, A. I. See **Laskorin, B. N.**, 3973.

Z

Zaboeva, M. I., and **Savrulina, V. I.** Extraction of reduced molybdoniobophosphoric acid in determination of niobium, 824.
Zaborenko, K. B. See **Alian, A.**, 2647, and **Szirtes, L.**, 622.
Zaborniak, F. See **Fecko, J.**, 3007.
Zabrodina, K. S. See **Klimova, V. A.**, 2151.
Zacek, H. Construction of control charts for semi-quantitative data, 3261.
Zaduban, M. Measurement of very low levels of β-activity with a gas-flow Geiger - Muller detector, 1931.
— and **Seidel, H. O.** Radiometric measurement of isotope effects in potassium, 2581. Influence of the colour of the sample on the measuring efficiency of a plastic scintillator, 3250.
Zagmen, J. Determination of harmful substances in industrial atmospheres with a mine interferometer, 562.
Zagorets, P. A. See **Popov, A. I.**, 913, and **Shostenko, A. G.**, 2785.
Zahn, H. See **Birkenfeld, J.**, *Book*: Oct.
Zahradnicek, M., Blesova, M., and **Stefek, S.** Study of mixed indicators by complementary tristimulus colorimetry. IV. Modified indicators based on bromocresol green - methyl red, 8.
Zahran, A. H. See **Barakat, M. F.**, 3485.
Zaichko, L. F. See **Zakharov, M. S.**, 815.
Zaikin, V. G. See **Zaretskii, V. I.**, 2915.
Zaikovskii, F. V., Furtova, E. V., Ivanova, V. N., and **Sadova, G. F.** Concentration of niobium, tantalum, zirconium and hafnium with use of salicylfluorone and 3,3′-dimethoxy-*NN*′-disalicylidenebenzidine, 1972.
Zaitsev, P. M., Krasnosel'skii, V. N., and **Dichenskii, V. I.** Polarographic determination of nitro-compounds in effluents from aniline-dye manufacture, 3891.
Zak, B., Welsh, B. A., and **Weiner, L. M.** Comparative electrophoresis of cytidines, adenines, uracils and guanines, 1081.
— See also **Baginski, E. S.**, 435, and **Epstein, E.**, 1885.
Zakharov, M. S., and **Kon'kova, A. V.** Polarographic coefficients of certain elements in anodic-stripping voltammetry. II, 701.
— and **Zaichko, L. F.** Anodic-stripping voltammetry: polarographic behaviour of antimony, 815.
— See also **Baletskaya, L. G.**, 59, 733.
Zakharov, V. A. See **Bessarabova, I. M.**, 3384.
Zakharova, E. A., and **Kilina, Z. G.** Determination of antimony in gallium arsenide by anodic-stripping voltammetry, 82.
Zakhidov, A. Sh. See **Abdullaev, A. A.**, 566.
Zaki, A. Y. See **Balbaa, S. I.**, 465.
Zakirov, N. S. Analysis of the products of reaction of alcohols with ammonia by GLC, 241.
Zalesskaya, T. E., and **Lavrova, I. K.** Identification of 1-phenylpropan-2-one and propiophenone by TLC, 3535.
Zamfir, I. See **Turcanu, C. N.**, 286.
Zamorani, A. See **Pifferi, P. G.**, 1778.
Zamyslov, R. D. See **Bragina, M. I.**, 1396.
Zanardi, M. See **Malvano, R.**, 1340.
Zanaroli, L. See **Salata, A.**, 2612.
Zandstra, H. G. Automated determination of phosphorus in sodium bicarbonate extracts of soil, 3094.
Zanin, S. J., and **Hooser, G. E.** Analysis of solders by X-ray spectrometry, 799.
Zank, L. C. See **Zinkel, D. F.**, 383, 2232.

Zappi, E., and **Bublitz, G.** Combined chemical and isotopic detection of iodo-amino-acids in TLC, 2330.

Zarafonetis, C. J. See **Haywood, B. J.**, 445.

Zaretskii, V. I., **Vul'fson, N. S.**, **Zaikin, V. G.**, and **Torgov, I. V.** Mass spectrometry of steroid systems. XVII. Determination of the position of the hydroxy-group in the steroid molecule, 2915.

Zarinskii, V. A. Potentiometry, conductimetry, coulometry, electroanalysis and other electrochemical methods: progress report, 3.

Zaslavskaya, L. V. See **Lashko, N. F.**, 3452.

Zatka, V. Determination of zinc and phosphorus in lubricating oil additives, 3568.

Zatonskaya, T. P. See **Vol'khin, V. V.**, 49.

Zaverio, S. See **Rondini, G.**, 395.

Zawta, B., and **Hoelzel, W.** Chromatography on polyamide: review. I. Separating function in polyamide chromatography, 1854; II. Possible uses of polyamide as adsorbent in chromatography, 1854; III. Identification reactions on polyamide thin-layer plates, and documentation of the plates, 1854.

Zaye, D. F. See **Frodyma, M. M.**, 27.

Zayukova, N. D. See **Busev, A. I.**, 146.

Zbrozhek, L. S. See **Varlamov, M. L.**, 3402.

Zeeman, P. B., and **Brink, J. A.** Use of a non-absorbing reference line in the simultaneous determination of platinum, rhodium, palladium and gold by atomic-absorption spectroscopy, 1974.

Zeeuw, R. A. de. Influence of solvent vapour in TLC using sandwich chambers and unsaturated chambers, 1859.

Zeffert, J. T. See **Lerner, M.**, 2361.

Zeitlin, H. See **Kim, Y. S.**, 1211.

Zeitz, L., and **Lee, R.** Element analysis in labelled DNA by X-ray fluorescence, 2340.

Zelenetskaya, A. A., **Vorontsova, I. M.**, and **Markina, A. B.** Determination of polyhydric alcohols, 2164.

— See also **Skvortsova, A. B.**, 247.

Zelenina, E. N., and **Shemyakin, F. M.** Mercurimetric determination of total nitrogen in polyamides, 3586.

Zelenkova, V. V. See **Suzdaleva, N. I.**, 377.

Zelichenok, S. L. See **Dziomko, V. M.**, 1977.

Zelinskii, M. S. See **Dryakhlov, A. I.**, 1959.

Zenk, M. H. See **Schmitt, J. H.**, 2322.

Zentai, G. See **Hedvig, P.**, *Book*: Nov.

Zepf, S. Fluorimetric determination of magnesium in biological material, 2270.

Zetlmeisl, M. J. See **Haworth, D. T.**, 869.

Zettner, A., **Rafferty, K.**, and **Jarecki, H. J.** Determination of lithium in serum and urine by atomic-absorption spectrophotometry, 981.

Zhamagortsyan, V. N. See **Melkonyan, S. A.**, 3512.

Zhantalai, B. P., and **Tur'yan, Ya. I.** Use of formaldehyde in the polarographic determination of amino-acids, 2323.

Zhardetskaya, V. N. See **Volodina, M. A.**, 3490.

Zharkova, D. N. See **Dubrovina, I. M.**, 3454.

Zhavnerko, K. A., and **Erofeev, B. V.** Determination of mono- and di-basic aliphatic acids in the products of the liquid-phase oxidation of cyclohexanol by GLC, 2796.

Zhdanov, A. K., **Akent'eva, N. A.**, and **Kapitsa, N. V.** Successive amperometric titration of mixtures containing thallium and other metal ions, 3303.

— and **Kapitsa, N. V.** Amperometric analysis of mixtures of cations, 3298. Successive amperometric titration of mixtures of cations containing mercury and other metals, 3299.

Zhdanov, A. K., and **Yatrudakis, S. M.** Amperometric titration, at a rotating platinum electrode, of hydrogen peroxide with solutions of certain oxidising agents, 722. Use of hydrogen peroxide in amperometry, 3268. Use of sodium nitrite in amperometry, 3269. Amperometric titration of hydrogen peroxide and sodium nitrite with solutions of various oxidising agents in apparatus with a platinum electrode, 3270.

— See also **Kapitsa, N. V.**, 3307.

Zhdanovich, E. S. See **Trubnikov, V. I.**, 279, 295, 932.

Zhechkova, L. A., **Mukhina, R. E.**, and **Romanova, N. S.** Determination of titanium in titanium dioxide by difference photometry against a standard glass, 806.

Zheleznova, A. A. See **Tarasevich, N. I.**, 154.

Zhiglinskii, A. G. See **Nguen Van Byu**, 3986.

Zhigunov, I. S., and **Lomako, L. T.** Analysis of a mixture of low-boiling gases with hydrocarbons by GSC, 2563.

Zhilina, N. B. See **Gruzdeva, N. A.**, 948.

Zhivotovskaya, I. A., and **Roizenblat, E. M.** Alternating-current polarographic determination of zinc and copper in blood plasma, 2863.

Zhubanov, B. A. See **Derevyanchenko, V. P.**, 283

Zhuk, L. I. See **Abdullaev, A. A.**, 566.

Zhukhovitskii, A. A., and **Berezkin, V. G.** Use of gas chromatography in analysis: progress report, 3

— See also **Sazonov, M. L.**, 881.

Zhuravlev, V. E. See **Nefedov, V. D.**, 2662.

Ziegler, D. C. See **Quinn, E. J.**, 332.

Ziegler, H. W. See **Cochran, E. M.**, 2352.

Ziegler, M., and **Lippmann, H. G.** Quantitative electrophoretic separation of insulin and glucagon, 1068.

Zielenski, K. See **Kanski, R.**, 2215.

Zielinski, S. See **Krause, A.**, 721.

Zielske, F. See **Hammerstein, J.**, 1313.

Ziemba, S. Polarographic determination of high contents of rhenium, 2104.

Zil'bershtein, Kh. I. Spectrographic determination of elements below the reliable limit of detection, 3291.

— and **Nikitina, O. N.** Effect of purity of laboratory air on the results of spectrographic analysis, 1269.

— **Nikitina, O. N.**, **Semov, M. P.**, and **Legeza, S. S.** Carbon arc and discharge in a hollow cathode as light sources for the trace analysis of elements, 642

Zimina, G. M. See **Korenman, I. M.**, 1472.

Zingales, I. Systematic identification of psychotropic drugs by TLC. II, 1005.

Zilio-Grandi, F. See **Sassu, G. M.**, 966.

Zink, P. Elimination of the memory effect in the mass-spectrometric determination of traces of thallium, 1914.

Zinkel, D. F., **Lathrop, M. B.**, and **Zank, L. C.** GLC of the trimethylsilyl derivatives of resin acids and the corresponding alcohols, 383.

— and **Zank, L. C.** Separation of resin acid from fatty acid methyl esters by gel-permeation chromatography, 2232.

Zipple, K. G. See **Beyer, W. F.**, 1123.

Zitomer, F. Applications of thermogravimetric-mass spectrometric analysis, 2530.

Zlatkis, A. See **Fenimore, D. C.**, 3962, and **Price, J. G. W.**, 616.

Zocchi, F. Analysis for methane in helium, hydrogen or neon, 715.

Zolotavin, V. L., **Bukreev, Yu. F.**, and **Tolstov, L. K.** Flame-photometric determination of lithium in hydrated vanadium pentoxide, 2695.

Zolotov, Yu. A. Extraction methods: progress report, 3.

ondag, H. A. See **Jacobs, W. L. W.**, 1062.
orzut, C. M. See **Capella, P.**, 3520.
sigrai, I. J. See **Vajgand, V. J.**, 2800.
sinka, L. See **Szirtes, L.**, 622.
ubynina, K. B. See **Dobkina, B. M.**, 140.
ucas, S. M., and **Arruda, A. A. R.** Determination of manganese in the ash fraction of foods, 3012.
— and **Lajolo, F. M.** Diffusion vessel for the isolation of small amounts of fluorine, 2722.
uercher, K. See **Hadorn, H.**, 532, 3820.
ugravescu, M. A., and **Zugravescu, P. G.** Determination of carbaryl in conditioned insecticidal products, 1189.
ugravescu, P. G. See **Zugravescu, M. A.**, 1189.
Zuman, P. See **Halls, D. J.**, 268, 912, 1190, 1191.
Zwaving, J. H. GLC determination of thymol and carvacrol in common thyme and wild thyme compared with some spectrophotometric determinations, 489. Ion-exchange separation of dianthrone glycosides and anthraquinone glycosides in extracts of senna or rhubarb, 3745.
— See also **Os, F. H. L. van**, 466.
Zweig, G. [Analytical reviews, 1968]—Chromatography, 677.
Zwierzak, K. See **Alchimowicz, J.**, 3574.
Zwobada, F. See **Renous, D.**, 543.
Zydek, G. See **Uhde, W.-J.**, 3596.

INDEX TO SUBJECTS

Organic compounds are indexed under the parent compounds, except under the headings **Indicators** and **Reagents, organic,** and in the lists of reagents under specific elements. Esters are indexed under the acid constituents. References to **Cosmetics, Dyes, Enzymes** and minor items of **Laboratory apparatus** will be found under these headings. Patents are indicated by P and conference papers (titles only) by C following the abstract number.

A

Absorptiometry. (See *Photometry.*)
Acenaphthylene, detmn. of acenaphthene in, by GLC, 2819.
Acetaldehyde, detmn., in blood, by GLC, 3635.
  in mixtures with olefin oxides, by GLC, 233.
Acetamide, thio-, detmn., coulom., 269.
  volum., 270.
4-Acetamidophenyl 2,2,2-trichloroethyl carbonate, detmn., in presence of paracetamol, column chrom. - spectroph., 1691.
Acetaminophen. (See *Paracetamol.*)
Acetarsol, detmn. of decomposition products of, paper chrom. - spectroph., 3780.
Acetate, sepn. from Cl$^-$, by ion exchange, 2474.
Acetic acid, detection of vapours of, in air, cell and procedure for, 2432.
  detmn. of formic acid in, iodim., 3515.
  differentiation of the fermentation product from synthetic, by detmn. of ^{14}C by scintillation counting, 531.
—, **amino-.** (See *Glycine.*)
—, **3,3′-azodi-(2-hydroxybenzylimino-di-),** sepn. from related compounds, ion-exchange chrom., 1503.
—, **cyano-,** analysis of esters of, by GLC, 1493.
—, **2,3- and 2,5-dichloro-4-hydroxyphenoxy-,** detmn., in plant tissue, in presence of 2,4-D, by GLC, 1793.
—, **2,5-dihydroxyphenyl-,** identn, in urine, by TLC, 395.
—, **ethylenediaminetetra-.** (See *EDTA.*)
—, **2-hydroxy-3-(2-hydroxyphenylazo)benzyliminodi-,** sepn. from related compounds, ion-exchange chrom., 1503.
—, **5-hydroxyindol-3-yl-,** sepn. from related compounds, by gel-chromatography - fluorim., 1599
—, **4-hydroxy-3-methoxyphenyl-,** detmn., in biol. tissues, by solvent extraction - spectrofluorim., 1023.
  in urine, paper chrom. - spectroph., 394.
—, **indol-3-yl-,** detmn., spectroph., 1184.
—, **1-methyl-imidazol-4-yl-,** detmn., in urine, by GLC, 3690.
—, **phenoxy-,** chloro-deriv. of, sepn., ion-exchange chrom., 905.
—, **phenyl-,** sepn. from other phenylalkanoic acids, by TLC of anilides, 3655.
Acetic acid esters, analysis of mixtures of, by rates of hydrolysis, 3519.
  detmn., in potable spirits, by GLC, 3077.
  methyl, detmn., in aq. soln., thermom., 237.
  vinyl, analysis, by GLC, 1517.
Acetoacetic acid, detmn., in blood, in presence of other org. acids, by temp.-programmed GLC, 3656.
  and urine, enzymic - fluorim., 390.
Acetone, analysis of mixtures with isobutyl methyl ketone, by phase titration, 3511.
  detection of impurities in, by GLC, 3743.
  detmn., in aq. soln., thermom., 237.
  isotopic analysis of deuterated, by GLC, 248.
Acetonitrile, purification of, for voltammetry, 2521.
Acetophenone, 2-dimethylamino-3′,4′-dihydroxy-, detmn., in biol. fluids, ion-exchange chrom. - spectroph., 3629.
Acetylation, isopropenyl acetate as reagent for, 266.
Acetylene derivatives, detmn. of monosubstituted, 2492.
  GLC of, 2786.
Acetylcarbromal, detmn., in pharm. tablets, in presence of bromvaletone, column chrom. - spectroph., 1685.
Acetyl-groups, detmn., 225.
  use of isopropenyl acetate as reagent in, 266.
Aconitic acid, detmn., in molasses, comparison of methods for, 1722.
Acridine, paper chromatography of deriv. of, 3561.
Acrylaldehyde, detmn., amperom., continuous, 2245.
  in air, photom., 1201.
Acrylamide, detmn., spectroph., 2178.
Acrylic acid, detmn., in atmospheric dust, fluorim., 1819.
—, **2-cyano-,** esters of, analysis, by GLC, 1493.
Acrylic acid esters, detmn., in presence of methacrylates, polarogr., 3591.
  spectroph., 2178.
  undecenyl, sepn. from allyl undecenoate, by TLC, 1516.
Acrylonitrile, detmn. in cereals after fumigation, by GLC, 3857.
  of impurities, in, by GLC, 262.
  polarogr., 2246.
Actinium, detmn. of ^{227}Ac in urine, by alpha-counting, 979.
  ion-exchange chrom. - alpha-counting, 987.
  sepn. of ^{228}Ac from ^{212}Bi, column chrom., 31.
Adamantane, 1-ethyl- or 1-methyl-, sepn. and identn. of deriv. of, by GLC, i.r. spectroph. and NMR, 929.
Adenosine, detmn., in pharm. prep., in presence of other nucleosides, paper chrom. or electroph. - spectroph., 1147.
Adenosine phosphates, detmn. of P in, by O-flask method, 457.
—, **cyclic 3′,5′-,** sepn. from related nucleotides, electroph., and detmn., spectroph., 1640.
—, **5′-pyro-,** detection, high-voltage paper electroph., 2338.
—, **5′-tri-,** detmn., enzymic, apparatus for, 3726.
  in ng range, 1639.
  sepn. from luciferin and dehydroluciferin, in firefly extracts, by gel filtration, 3739.
Adhesives, analysis of cyanoacetic and cyanoacrylic acid deriv. in manufacture of, by GLC, 1493.
Adiphenine, sepn. from amidopyrine, allobarbitone and phenobarbitone, in pharm. tablets, by TLC, 482.
Adrenal glands, detmn. of corticosteroids in lipid extracts of, column - thin-layer chrom. - colorim., 406.
Adrenaline, detection, on thin-layer plates, 3532.
  detmn., in biol. fluids and tissues, in presence of

drenaline, determination—*continued*
noradrenaline, ion-exchange chrom. - fluorim., automated, 2314, 2315.
in biol. tissues and urine, in presence of dopamine and noradrenaline, by GLC as trifluoroacetates, 2927.
in presence of noradrenaline, spectrofluorim., 472.
identn., by NMR, 1702.
sepn., from dopamine and noradrenaline, by GLC as trifluoroacetates, 2926.
—, 3-O-methyl-, detmn., in urine, in presence of catecholamine metabolites, by TLC, 3683.
in presence of 3-*O*-methylnoradrenaline and 3-methoxytryamine by GLC, 3684.
ion-exchange chrom. - radiom., 1044.
sepn. from phenolic compounds, gel-chrom. - fluorim., 1955.
Aerosols, detmn. of particle size of, laser technique for, 4039.
of surface area of, laser technique for, 2534.
of volatile components in, by GLC, 2394.
sampler for, electrostatic, 1219.
sampling of, theoretical discussion of, 3858.
Aetiocholanolone. (See *5β-Androstan-17-one, 3α-hydroxy-*.)
Aflatoxins, assay of B_1, microbiol., 1575.
detection, in foods, by TLC, 3788.
detmn., in peanut butter, by TLC, 1737.
of B_1 in green coffee, by TLC, 1755, 1756.
of G_1 in green coffee, by TLC, 1756.
of M_1 in milk, by TLC - spectroph., 1734.
identn., in milk or urine, by ref. index of crystals and X-ray diffraction data, 1574
on TLC plates, fluorodensitom., 3113.
sepn., in cottonseed, column - thin layer chrom., 3654.
Aglycones, sepn. from glucuronides, in urine, thin-layer or ion-exchange chrom., 2907.
Agricultural analysis, biochemical and nuclear potentialities in, 2395.
Air. (See also *Dust*, atmospheric.)
absorption of CS_2 from, comparison of liquid absorbents for, 3860.
contamination of, by lipids from polypropylene apparatus, 10.
detection of alcohols in, colour reaction for, 3863P.
of aniline in, colorim., 3865.
of CS_2 in, colour reaction for, 1195.
of chlorohydrocarbons in, ionisation analyser for, 564.
of toxicants in, by use of a luminous bacterial culture, 3122P.
detmn. of acid vapours in, sensing platinum electrode and procedure for, 2432.
of acrylaldehyde in, absorptiom., 1201.
of 2-aminobutane in, colorim., 527.
of Be in, atomic-absorption spectroph., 1814.
of ^{7}Be, ^{32}P, ^{90}Sr, ^{210}Pb and ^{210}Po in, radiochem., 563.
of CO_2 in, mass spectrom., 1815.
of CO in, photom., 1009.
continuous, 561.
of Cl in, absorptiom., 1199.
of cyclohexanone in, in presence of acetone, spectroph., 3864.
of diffusion coefficients of vapours in, 2431.
of di-isocyanatotoluene in, test paper for, 565.
of formaldehyde in, photom., 1821.
of HF in, use of recording SO_2 analyser for, 1198.
of Hg in, atomic-absorption spectroph., 2435.
radiom., 1194P.
Air, determination—*continued*
of N and O in, by GLC, with ^{90}Sr ionisation detector, 2701.
of N_2O in, by molecular sieve - GLC, 2433.
of O in, polarogr., metallised membrane electrodes for, 1306
of O_3 in, in presence of NO_2, spectroph., apparatus for field use, 3861.
spectroph., 560.
of pollutant gases and solids in, apparatus for, 3859.
and vapours in, interference refractometer for, 562.
of pollutants in, 1968 annual review, 1948.
apparatus for, 1281P.
of styrene in, colorim., 1202.
of S-containing gases in, by membrane filtration and micro-coulom. detection, 1196.
of ^{3}H in, by liquid scintillation counting, 1193.
of volatile compounds in, by GLC, fluidised-bed sampler for, 559.
of H_2O in, by GLC, 2225, 3314.
isotopic analysis of Ne in, 716.
production of accurate mixtures of solvents or gases with, apparatus for, 3119.
Alanine, detmn., volum., 2325.
resolution of D- and L-isomers of, 3700.
—, 3-{o-[bis(2-chloroethyl)amino]phenyl}-, sepn. from other biol. alkylating agents, by TLC, 493.
—, L-leucyl-D-phenyl-, sepn. from the L-leucyl-L-phenyl isomer, in mixtures, by solvent extraction of their Cu^{II} complexes, 1065.
—, phenyl-, detmn., in blood serum, comparison of methods for, 1608.
in presence of tyrosine, enzymic - spectroph., 2937.
Albumin, detmn., in blood serum, comparison of methods for, 1622.
Alcohols. (See also *Fatty Alcohols*; *Polyols*.)
analysis of mixtures of C_9 to C_{15} with C_4 to C_{10} glycols, by GLC, 3502.
of primary n-alkanols, by GLC, 2161.
detection, in air, colour reaction for, 3863P.
detmn., in products of hydroformylation of olefins, by GLC, 2215.
of OH content of mixtures of, by NMR, 239.
photom., V^V complexes as reagents for, 893.
spectroph., reagent for, 3498.
GLC of, effect of electrolytes on, 892.
identn., by proton magnetic resonance, 234.
by reaction GLC, use of dehydrogenation in, 3499.
nitro-deriv. of, detmn. of mixtures of, potentiom., 1458.
resolution of racemic, by GLC of diastereoisomers, 2790.
sepn., by GLC, 3501.
as 4-(4-nitrophenylazo)benzoates, 895.
column chrom., as 4-(4-nitrophenylazo)benzoates, 2159.
of C_5 to C_{12} aliphatic, ion-exchange chrom., 3500.
Alcohols, polyhydric. (See *Polyols*.)
Aldehydes, aliphatic, C_1 to C_8, TLC of, as 3-methylbenzothiazolin-2-one deriv., 1453.
detmn., polarogr., 3510.
detmn., in atmospheric dust, chrom., azulene procedure for, 2436.
in products of hydroformylation of olefins, by GLC, 2215.
of satd., by GLC of Girard-T deriv., 2168.
volum., 920.

Aldehydes,—*continued*
sepn. from polyols and sugars, ion-exchange chrom., 1449.
TLC of, as 2,4-dinitrophenylhydrazones, 1452.
Aldicarb, detmn., in plants, in presence of its sulphoxide and sulphone, column - gas chrom., 3855.
Alditols, GLC of, as trifluoroacetyl deriv., 3508.
Aldohexoses, ^{14}C-labelled, detmn. of radioactivity of individual C atoms in, by scintillation counting of their methyl glycosides, 1012.
Aldonolactones, GLC of, as trimethylsilyl deriv., 3508.
Aldopentoses, ^{14}C-labelled, detmn. of radioactivity of individual C atoms in, by scintillation counting of their methyl glycosides, 1012.
Aldosterone, detmn., in cortical extracts, by TLC - spectroph. or colorim., 476.
sepn. from related steroids, in urine, ion-exchange chrom., 1032.
Aldrin, detmn., on seeds, by solvent extraction - GLC, 1799.
isolation of metabolites of, from urine, column - gas chrom., 2895.
solvent extraction from soil, effect of H$_2$O in, 1797.
Alkali-metal salts, detmn. of impurities in, spectrogr., by co-pptn. with CdS, 1963.
non-aq. conductim., 2574.
Alkali-metals, detmn., flame photom., influence of alcohols on, 44.
in plants, flame photom., 2265.
in presence of V, flame photom., 1331.
in sea water, atomic-absorption spectroph., 3877.
spectrogr., 1976.
sepn., by ion exchange, conditions for, 1347.
from multivalent cations and detmn., in silicate ores, by ion exchange, 1975.
on dextran gel columns, 2575.
solvent extraction of, with Cr complexes, 3317.
Alkaline-earth metal salts, detmn., non-aq. conductim, 2574.
of impurities in, spectrogr., by co-pptn. with CdS, 1963.
Alkaline-earth metals, detmn., in presence of V, flame photom., 1331.
in sea water, atomic-absorption spectroph., 3877.
polarogr., in *NN*-dimethylacetamide, 1357.
Alkaloids, detection in blood, saliva and urine, by solvent extraction - TLC, 2882.
detmn., conductim, or oscillopolarogr., as tetraphenylborates, 1111.
potentiom., 910.
identn., in autopsy materials, paper electroph., 366.
on TLC plates by exposure to iodine vapour, 1110.
use of 5-nitrobarbituric acid for, 1660.
pyrrolizidine, detmn., spectroph., solvent and temp. effects in, 2356.
sepn., by TLC on polyamide, 1662.
Alkanes. (See also *Hydrocarbons*).
detmn., in minerals, ores or rocks, by GLC - mass spectrom., 1492.
GLC of, interpretation of results in, 2461.
Alkanesulphonates, detmn. of ionic constituents in, by ion exchange, 2830.
study of alkali-fusion products of, by GLC, 1497.
Alkanols. (See under *Alcohols*).
Alkyl nitrates, analysis of mixtures of, by GLC, 2801.
Alkylthio-groups, detmn., 2151.
Allantoin, detmn., in emulsions, in presence of glycerol, by TLC - spectroph., 463.
Alliin, detmn., in garlic, enzymic - colorim., 3756.
Allobarbitone, identn., by TLC, solvent systems for 1679.
in urine, by TLC, 3623.
sepn. from adiphenine, amidopyrine and phenobarbitone, in pharm. tablets, by TLC, 482.
Allopurinol, detmn., in pharm. prep., volum. or spectroph., 1144.
Alloys. (See also *Brass; Bronze; Solders.*)
analysis, during furnace production, by electron bombardment - X-ray spectrogr., 3280.
spectrogr., influence of electrodes on, 1959 1960.
non-ferrous, detmn. of Si and Sn in, by GLC as chlorides, 792.
radioactive, detmn., of C, H, N and O in, 697.
Aluminates, alkaline, detmn. of Al and NaOH in by recording of titration curves, 766.
Aluminium, analysis, mass spectrom., with use o ion-beam chopper, reproducibility of, 34.
detection, flame-emission spectroph., 1334.
detmn., complexom., 2542.
in presence of Ga, 75.
fluorim., 2016.
in alkylaluminium compounds, complexom. 2805.
in bauxite, X-ray spectrogr., 2620.
in chalk, photom., 2621.
in coal, by neutron activation, 1430.
in Cu alloys, photom., 2621.
in iron, spectrogr., 2115.
in iron alloys, spectroph., 2111.
in natural water, photom., 3868.
in plants, by neutron activation, 1C.
spectroph., 2865.
in presence of F^{-}, spectrogr., 2619.
of Fe and Ti, paper chrom., 804.
in soil, atomic-absorption spectroph. or photom., 542, 3868.
spectroph., 1782.
in zeolites, complexom., 1337.
of B in, spectroph., 3349.
of Cd, Cu, Pb and Zn in, polarogr., 72.
of impurities in, spectrogr., with sample a rotating electrode, 762.
of O in, by vacuum fusion, 2625.
of P and S in, by neutron activation, 2702.
of protein-bound, in blood serum, by ge filtration - neutron activation, 2855.
polarogr., 2622.
spectroph., 71, 760, 2014.
volum., as arsenate, 1335.
X-ray spectrogr., role of window of X-ra tube in, 1962.
sepn. from Be, Cr, Cu or Ag, by GLC of acetylacetonates and detmn., mass spectrom., 703
from Fe, Mg and Zr, by pptn. of hydrate oxides, 2623.
from Fe^{III} and Ti^{IV}, paper chrom., 711.
from other metals, ion-exchange chrom., i malonate media, 2560.
solubility of oxidised foil in Cr$_2$O$_3$ - H$_3$PO$_4$ soln. study of, 3350.
sorption of, on a silica column, study of, 39.
Aluminium, reagents for, calmagite, 71.
catechol violet, 760, 767.
Chrome Azurol S, 2014, 3868.
8-hydroxy-7-iodoquinoline-5-sulphonic acid, 542
8-hydroxyquinoline, 2865.
stilbazo, 2111.
stilbazochrome, 2621.
Aluminium alkyls, detmn. of Al in, complexom. 2805.

uminium alloys. (See also *Semiconductors.*)

- analysis, atomic-absorption spectroph., 73.
  - spectrogr., 2018.
  - X-ray spectrogr., variation of intensity in, 1367.
- detmn. of Al in, complexom., indicators for, 2542.
  - of B in, spectroph., 3349.
  - of Fe in Al - Cu, atomic-absorption spectroph., 3327.
  - of Mg in Al - Mn, complexom., 761.

uminium ammonium sulphate, detmn. of Ca and Mg in, by ion exchange - complexom., 1366.

uminium chloride, detmn. of Fe^{III} in, by adsorption - photom., 2097.

uminium complexes, effect of solvent on absorption and fluorescence spectra of, 2016.

- with 3-hydroxyflavone, spectrofluorim. and spectroph. study of, 2015.
- uninuclear, detmn., in presence of polynuclear species, chronospectroph., 2013.

uminium matrices, analysis, by charged-particle activation, removal of surface O in, 2624.

luminium nitrate, detmn. of Ni in, polarogr., 2017.

luminium oxide, detmn., in alumina production, spectrogr., 764.

  - in minerals, ores or rocks, atomic-absorption spectroph., 108.
  - of impurities in, spectrogr., 74, 3351.
  - of Li, K and Na in, flame photom., 74.
  - of NO$_3^-$ in, by isotope dilution, 765.
  - of O in mixtures with aluminium, by vacuum fusion, 2625.
- far-i. r. absorption of hydrated and anhydrous, 1365.

manita phalloides, detection of toxins in, by TLC, 3692.

mbazone, detmn., in pharm. prep., volum., by Dragendorff reagent, 3002.

mericium, sepn. from Ce and La, paper chrom., synergism in, 1385.

mides, detmn., potentiom., 1457.

midopyrine, detmn., in pharm. prep., gravim. as complex with H$_3$[Cr(SCN)$_6$], 1133.

  - in presence of codeine phosphate, phenacetin, phenobarbitone and phenolphthalein, 485.
    - of phenacetin, phenazone and caffeine, by TLC - spectroph., 1687.
  - in the technical product, by solvent extraction - volum., 1132.
  - non-aq. volum., indicators for, 2541.
- identn., in presence of related drugs, by TLC - u.v. spectroph., 1692.
- sepn. from adiphenine, allobarbitone and phenobarbitone, by TLC, 482.

mines. (See also *Polyamines.*)

- analysis of aliphatic, by GLC, 265.
- detection, colour reagent for, 3522.
  - of aliphatic primary, 908.
- detmn., by GLC - i.r. spectroph., 2469.
  - in industrial water, B.S.I. method for, 3884.
  - of aliphatic, spectroph., 2176.
  - of C$_1$ to C$_5$ aliphatic, by GLC, abnormalities in, 909.
  - of primary, fluorim., 1054.
- identn. of lower primary, i.r. spectroph., as 2,4-dinitrophenylderiv., 3524.
- sepn., in biol. systems, by TLC, 414.

mino-acids, analysis, automated, computer-programmed, 417.

    - report of conference on, 1309.
    - Rosen's ninhydrin soln. for use in the Beckman-Spinco analyser, 416.
    - sample-loading device for, 1052.
  - automation of sample application in, 1602.
  - by TLC, evaluation of spot areas in, 3156.

Amino-acids, analysis—*continued*

  - column chrom., automated, 1846.
- detection, on paper chromatograms, spectrofluorim., 3693.
    - solvent for, 3694.
  - on TLC plates, with *p*-benzoquinone, 1313C.
- detmn., by TLC, as 3- or 5-nitro-2-pyridyl derivs., 1607.
    - as 3-phenyl-2-thiohydantoin deriv., spectroph., 1606.
    - correlation between concn. and spot size, 2933.
    - spectroph., 3697.
  - comparison of ion-exchange chromatography and microbiological methods, 1313C.
  - fluorim., 1054.
  - in beer and malt wort, ion-exchange - gas chrom., 1767.
  - in blood plasma and urine, ion-exchange chrom., automated, 2321.
  - in plants, automated, 2935.
  - in protein hydrolysates, by temp.-programmed GLC of n-propyl *N*-acetyl esters, 3698.
  - in urine, by TLC, 3695.
  - of t-butoxycarbonyl protective groups removed from, gravim. or volum., 3705.
  - of ^{14}C-labelled, in effluent from automatic analyser, by liquid scintillation counting, 3699.
  - of free, in blood serum and urine, ion-exchange - paper chrom., 2934.
  - of D-isomers of, enzymic - colorim. or radiom., 2322.
  - of N in, spectroph., 2870.
  - of N-terminal, in proteins and peptides, chrom. - spectroph., as 4-nitropyridyl 1-oxide **deriv.,** 2932.
  - of salts of, potentiom., 961.
  - polarogr., use of formaldehyde in, 2323.
- GLC of, 2C.
  - of S-containing, as trimethysilyl deriv., 3704.
- identn., in foods, electroph. - thin-layer chrom., 419.
- paper chromatography of, reagent for, 2319.
  - R_F values of 28 acids, 2931.
- resolution of racemic, by GLC, 2328.
- sepn., by TLC, as 5-dimethylaminonaphthalene-1-sulphonyl deriv., 422.
    - on cellulose - silica gel, 1604.
  - from blood, by TLC, 3696.
  - from urine, thin-layer electroph., 1528, 1605.
  - in mixtures with di- and tri-peptides, thin-layer electroph. or electrochrom., 3707.
    - with hexosamines, ion-exchange chrom. - spectroph., 418.
    - with peptides, column chrom., as Cu^{II} complexes, 1067.
  - ion-exchange chrom., on amphoteric exchanger, 1066.
  - of basic, paper electroph., 2320.
  - of ^{14}C-labelled, by ion exchange, automated, 1603.

—, iodo-, TLC of, with combined chemical and isotopic detection, 2330.

Amino-groups, detmn., 218.

  - isopropenyl acetate as acetylating agent in, 2152.

Amino-nitrogen, detmn., in urine, spectroph., 3682.

Aminophenazone. (See *Amidopyrine.*)

Aminophylline, detmn., in pharm. compound powders, volum., 496.

Amino-sugars. (See also *Hexosamines.*)

- detmn., in mixtures containing glucosamine, spectroph., 1569.
- TLC of *N*-aryl deriv. of, 377.

Amitriptyline, detmn., in urine, in presence of its metabolites, by TLC, 3626.
Ammi visnaga, detmn. of khellin in fruits of, by TLC - spectroph., 465.
Ammonia, anhydrous, methods of test for, B.S.I. specification for, 122.
  detmn., in boiler water, in presence of hydrazine, by Nessler method, 2444.
    in fish, by diffusion and Nessler method, 3800.
    turbidim., as NH_4 12-molybdophosphate, 1397.
Ammonium compounds, quaternary, [2-(*N*-benzylanilino)ethyl] ethyldimethyl-, bromide. (See *Dispasmol*).
  detmn., in pharm. prep., gravim., 488.
    non-aq. volum. or potentiom., or spectroph., 3769.
  identn., use of 5-nitrobarbituric acid for, 1660.
  methyldiphenethyl, chloride. (See *Spasman.*)
Ammonium molybdate, detmn. of Mo in, volum., 840.
Ammonium perchlorate, detmn. of K in, atomic-absorption spectroph., 3434.
Ammonium salts, analysis of soln. containing NH_3, NO_3^-, NO_2^-, SO_4^{2-}, SO_3^{2-} and $(NH_4)_2SO_4$ - NO complex, 3402.
Ammonium sulphate, detmn., in suspension in mother liquor, by ultrasonic-absorption measurements, 3843.
    of free H_2SO_4 in, volum., 3403.
Amniotic fluid, detmn. of bilirubin in, fluorim., 3721.
    in presence of haemoglobin or methaemoglobin, spectroph., 2334.
Amphetamine, detmn., in urine, in presence of methylamphetamine and ephedrine, by TLC - colorim., 3627.
  identn., by NMR, 1702.
Amplification reactions, review, 678.
Ampoules, detmn. of H_2O in freeze-dried, by use of a coulom. hygrometer, 1106.
Amprolium, detmn., in feeding-stuffs, in presence of ethopabate, automated, 3111.
Amygdalin, detection on paper or thin-layer chromatograms, 1573.
Amylobarbitone, identn., i.r. spectroph., 1680.
  sepn. from other barbiturates or thiobarbiturates, by TLC, 1127.
Amylocaine, hydrochloride, detmn., in eye-drops containing naphazoline nitrate and methylene blue, by TLC - spectroph., 1715.
Anabasis aphylla, analysis of alkaloids of, by TLC, 2978.
Anacardic acid, detmn., in cashew nuts, chrom. techniques for, 1163.
Anaesthetics, general, analysis, by GLC review, 3764.
Anaesthetics, local, detmn., coulom., 3771.
    polarogr., 3765.
  identn., by crystalline ppt. of, 487.
Anagestone acetate, detmn., in fertility-control tablets, by GLC, 1708.
Analytical chemistry. (See also under the general headings *Amplification reactions; Automated methods; Biochemical analysis; Clinical analysis; Electroanalytical chemistry; Inorganic analysis; Kinetic methods; Microanalysis; Organic analysis; Pharmaceutical analysis; Qualitative analysis; Radioactivation analysis; Separation processes; Toxicological analysis; Volumetric analysis.*)
  amplification reactions in, review, 678.
  1968 annual reviews, 677, 1948.
  applications of ternary complexes in, 3259.
  construction of control charts for semi-quant. data, 3261.
  data processing in, 1316.
    by computer, 1318.

Analytical chemistry, data processing—*continued*
    to fit a linear equation, 1316.
  frequentometric, principles of, 1954.
  of rare elements, review, 690.
  reliability of results in, 4.
  remotely-operated equipment for, 1329.
  review of progress in USSR, 3.
  study of accuracy, precision and reproducibilit in, 2536.
  standardisation of methods of, 1949.
  sub-stoicheiometric masking in, 3260.
5α-Androstan-17-one,3α-hydroxy-. (See *Androsterone.*)
5β-Androstan-17-one, 3α,11β-dihydroxy-, sep from 3α-hydroxy-5β-androstan-17-one, in urin by solvent partition, 2916.
—, **3α-hydroxy-,** (*aetiocholanone*) detmn., in bloo plasma, by GLC, 1592.
    in urine, in presence of related 17-oxosteroid by TLC, 3676.
  sepn. from 3α,11-dihydroxy-5-β-androstan 17-one, in urine, by solvent partition, 2916
    from related 17-oxosteroids, in blood plasm extracts, by TLC, 1593.
Androst-4-ene-3,17-dione, detmn., in biol. tissue in presence of testosterone, column - thi layer chrom., 3677.
Androst-16-en-3-ols, detmn., in urine, by GLC as trimethylsilyl and chlorodimethylsilyl ether 3678.
Androst-4-en-3-one, 17α-hydroxy-, (*epitestosterone* detmn., in urine, simult. with testosterone, b TLC and GLC as trimethylsilyl ether, 2311.
Androst-4-en-3-one, 17β-hydroxy-. (See *Test sterone.*)
Androst-5-en-17-one, 3β-hydroxy-, detmn., in urin in presence of related 17-oxosteroids, b TLC, 3676.
    sepn. from related 17-oxosteroids, in bloo plasma extracts, by TLC, 1593.
Androsterone, detmn., in urine, in presence of r lated steroids, by TLC, 3676.
  sepn. from related 17-oxosteroids, in blood plasm extracts, by TLC, 1593.
Anethole, detmn., in fennel, simult. with fenchon by GLC, 2979.
Aniline, detection of vapour of, in air, colorim 3865.
  detmn., non-aq. volum., indicators for, 2541.
    photom., 1472.
  sepn. from 4-aminophenol, and identn., pape chrom., 3541.
—, **chloro-,** sepn. of isomers of, by GLC, 1481.
—, ***NN*-dimethyl-,** sepn. of monobromo-isomers o by GLC, 923.
—, **nitro-,** detmn., photom., 1465.
Aniline derivatives, detmn. of *N*-alkyl or *N*-dialkyl bromim., 3539.
Anilinesulphonic acids. (See *Benzenesulphon acids, amino-.*)
Anions, inorg., detmn., i.r. spectroph., 14.
  reaction of Safranine T with, 714.
  sepn., column chrom., on polyacrylamide an dextran gels, 1330.
Anisole, detmn., in ethyl ether, by GLC, 571.
—, **4-nitro-,** detmn., in mixtures with 1-chloro- nitrobenzene, 4-nitrophenol or 4-nitr phenetole, by thermal analysis, 3544.
    volum., 3545.
Antacids, detmn., in pharm. tablets, complexom., 49
Antazoline, detmn., in presence of naphazolin by GLC, 2999.
  identn., in presence of tolazoline, phentolamin and naphazoline, by TLC, 3784.

nthocyanins, detmn., in cranberries, by solvent extraction - spectroph., 3804.
sepn., in grapes, by TLC, 1072, 3074.
in *Medicago*, spp., by TLC, 3720.
nthocyanogens, detmn., in malt wort and beer, 1766.
nthoxanidins, sepn., in *Medicago* spp., by TLC, 3720.
nthracene, detmn., by electroluminescence, 2817.
of phenanthrene in, i.r. spectroph., 2818.
sepn. from other polycyclic hydrocarbons, by TLC, 291.
–, 9-phenyl-. detmn., by electroluminescence, 2817.
nthranilic acid, sepn. from benzoic acid, by ion exchange, 2473.
nthraquinone, alkyl deriv., detmn., iodim., 2206.
–, dihydro-, alkyl deriv., detmn., iodim., 2206.
nthraquinonesulphonic acid, 1-amino-, paper chromatography of isomers of, 1504.
Antibiotics, assay, in biol. fluids, microbiol., 3622.
microbiol., 'interference threshold' in, 1674.
bioautography on TLC plates, techniques for, 2981.
identn., in sensitivity discs, by TLC or iodim., 1673.
Antifreeze substances, for fuels, analysis, by GLC, 2221.
Antihistamines, identn., by crystalline ppt. of, 487.
Antimony, detmn., anodic-stripping voltamm., 815.
by luminescence spectra, at low temp., 3301.
gravim., 128.
in Sb - Fe catalysts, volum., 817.
in arsenic and As^{III} oxide, spectroph,. 2068.
in cast iron, spectrogr., 3459.
in gallium, anodic-stripping voltamm., 82.
in minerals, ores or rocks, by neutron activation, 1401.
polarogr., 814.
in Mo^{VI} oxide, spectrogr., improved sensitivity of, by addition of I or CBr_4, 150.
in natural water, polarogr., 2439.
in presence of As, Se and Te, by neutron activation, 1364.
of Bi, Cd or Cu, polarogr., 816.
of Fe or Cu, polarogr., 814.
in zinc, anodic-stripping voltamm., 63.
of Sb^{III}, amperom., 3271.
by solvent extraction - photom., 3410.
volum., 2691.
of impurities in, spectrogr., after distillation of $SbBr_3$, 3411.
of protein-bound, in blood serum, by gel filtration - neutron activation, 2855.
evaporation losses of, in $HCl - H_2SO_4$ media, 129.
sepn. of Sb^{III} from As^{III} and Bi, by TLC, 127.
of Sb^V from other elements, ion-exchange chrom., 1340.
solvent extraction of Sb^V, by alkyl phosphates, 818.
Antimony, reagents for, 2-(3,5-dibromo-2-pyridylazo)-5-diethylaminophenol, 3410.
Rhodamine B, 2068.
Antimony alloys. (See also *Semiconductors.*)
detmn. of Cu and Pb in bearing metal, complexom., 32.
of Sn in Sb - Pb, photom., 2052.
Antimony(III) bromide, solvent extraction of, with benzene, 819.
Antimony(III) iodide, solvent extraction of, with benzene, 819.
Antimony(III) oxide, detmn. of Cu in, anodic-stripping voltamm., 733.
Antioxidants, detmn., in edible fats, polarogr., 3827.
Antipyrin. (See *Phenazone.*)
Aperitifs, identn. of dyes in, paper chrom., 1772.
Apparatus. (See *Laboratory apparatus.*)
Apple juice, detmn. of acetoin in, spectroph., as index of fruit quality, 1735.
Apples, analysis of volatile compounds in, by temp.-programmed GLC, 1770, 3805.
detmn. of ascorbic acid, chlorogenic acid and catechins in, spectroph., 1162.
of carbaryl in, by TLC, 1751.
Arabinopyranoside, β-D-benzyl-. detmn., 897.
—, β-D-methyl-, detmn., 897.
Arachis oil, hydrogenated, detection, in butter fat, by TLC of trisaturated glycerides of, 3802.
Aramite, detmn., in crop residues, in presence of DDT, camphechlor and endrin, by TLC - GLC, 1805.
Arbutin, detmn., in plants, column chrom. - spectroph., 2980.
paper chrom., as quinol, 2906.
Arecoline, detmn., in areca nuts, by steam distillation - volum., 3047.
Argemone oil, detection, in edible oils, by solvent extraction - paper chrom., 1172.
Arginine, detmn., in presence of other amino-acids, by GLC or mass spectrom., deriv. suitable for, 1056.
sepn. from histidine and lysine, as Hg^{II} complexes and detmn., photom., 1057.
Argon, detmn., in helium, atomic-absorption spectroph., 1343.
in mixtures with N and O, by GLC, 3287.
enrichment of ^{36}Ar, by diffusion and convection, 1344.
sepn. from CO, CO_2, H_2S, O and SO_2, by GLC, 3305.
Arsenate, sepn. from AsO_2^- in autopsy material, paper chrom., 991.
Arsenic, detmn., a.c. polarogr., 1970.
apparatus for, 3917.
atomic-fluorescence spectroph., 2690.
in autopsy material, spectroph., 992.
in biol. materials, by neutron activation, 1C.
in coal, photom., 2769.
in metals, photom., 812.
in Mo^{VI} oxide, spectrogr., improved sensitivity of, by addition of I or CBr_4, 150.
in natural water, apparatus and test strip for, 3867P.
in org. compounds, by combustion, 144.
by O-flask combustion, 1441.
in phospholipids of marine oils, by neutron activation, 1547.
in presence of Sb, Se and Te, by neutron activation, 1364.
in red phosphorus, photom., 812.
in sulphur, 2704.
in urine, atomic-absorption spectroph., as molybdoarsenic acid, 993.
of Sb in, spectroph., 2068.
of As^{III}, amperom., 3271.
of As^V in natural water, spectroph., 1400.
of protein-bound, in blood serum, by gel filtration - neutron activation, 2855.
spectroph., as molybdoarsenate, 2875.
ion-exchange behaviour of, in HF media, 3409.
sepn. of As^{III} from Sb^{III} and Bi, by TLC, 127.
from other elements, paper chrom., 711.
of As^V from other elements, ion-exchange chrom., 1340.
Arsenic(III) oxide, detmn. of Sb in, spectroph., 2068.
Arsenite, sepn. from AsO_4^{3-} in autopsy material, paper chrom., 991.

Arsine, dimethyl(phenyl)-, sepn. of monobromo-isomers of, by GLC, 923.
Asbestos, detection, in biol. tissues or blood, microscopic, after ultrasonic treatment on slide, 1545.
Ascorbic acid, detmn., bromim., indicator for, 1093.
    in apples, simult. with chlorogenic acid and catechins, spectroph., 1162.
    in citrus fruits, paper chrom., 3831.
    in fruit and vegetables, paper chrom. - volum. or spectroph., 3088.
    in meat-pickling mixtures, in presence of NO_2^-, volum., 3023.
    in presence of alkyl nitrites, spectroph., 2989.
    in urine, spectroph., 3660.
    volum., optimum conditions for, 2344.
      with Cu^{II} salts, indicator for, 2797.
  sepn. from dehydroascorbic acid, by GLC, after silylation, 1094.
    by TLC on polyamide, 441.
Asparagus, identn. of dimethyl sulphide in aroma constituents of, by TLC, 3809.
Aspartic acid, resolution of racemic, by GLC, 2328.
Asphalt, detmn. of solid, in mineral oil, ring-colorim., 3566.
  NMR and i.r. spectroph. study of fractions of, 2218.
Aspirin, detmn., in pharm. prep., in presence of salicylamide, paracetamol and caffeine, potentiom., 2373.
    of free salicylic acid in pharm. prep. of, photom., automated, 2992.
      in tablets, column chrom., 1129.
  sepn. from salicylic acid, by gel filtration and detmn., fluorim., 2374.
Atmospheric dust. (See *Dust, atmospheric.*)
Atrazine, detmn., in maize, soil or water, by GLC, 1187.
Atropine, detmn., in belladonna extract, conductim., 460.
    in biol. materials, spectroph., comparison of methods for, 1663.
    of effect of surfactants on solubility in H_2O, by TLC, 1109.
Automated methods, adaptation of spectrophotometer for, 1915.
  1968 annual review, 1948.
  apparatus for, 1229P, 1231P.
    review, 1843.
  applications of, review, 1315.
  conversion of fraction collector for automatic sampling for, 592.
  detmn. of interferences in, 1300.
  reviews, 1947C.
Aviation fuel, detmn. of H_2O in, 1489.
Azinphos-methyl, detmn., by wet digestion - oxidation and spectroph., automated, 1807.
Aziridine, 1-benzoyl-2-ethyl-, sepn. from 4- and 5-ethyl-2-phenyl-2-oxazoline, by GLC, 930.
Azo-compounds, detmn., photom., 2798.
    volum., 2199.
Azo-groups, detmn., coulom., 227.

B

BHA. (See *Phenol, t-butyl-4-methoxy-.*)
BHC. (See *Cyclohexane, hexachloro-.*)
BHT. (See p-*Cresol, 2, 6-di-t-butyl-.*)
Balances. (See *Weighing.*)
Bananas, analysis of flavour of, column - gas chrom. - mass spectrom., 1161.
Barbitone, detection, by TLC, colour reagent for, 2369.
  detmn., in barbiturate mixtures, by TLC - volum., 2371.
Barbitone,—*continued*
  identn., by TLC, solvent systems for, 1679.
    in urine, by TLC, 3623.
    i.r. spectroph., 1680.
  sepn. from other barbiturates or thiobarbiturates, by TLC, 1127.
Barbiturates, analysis of mixtures of, by TLC - volum., 2371.
  automated u.v. titration of, 3758.
  detection, by TLC, colour reagent for, 2369, 2370.
  detmn., by GLC, 1552.
    in biol. materials, by GLC, 2888.
    in blood, spectroph., 2887.
    in solid dosage forms, by GLC, 1682.
  sepn. of mixtures of, by TLC, 1127.
Barbituric acid, identn., by TLC, solvent systems for, 1679.
    in autopsy materials, by GLC - TLC, 368.
    in urine, by TLC, 3623.
—, 5-allyl-5-(1-cyclohexenyl)-, identn., paper electroph., 2372.
—, 5-allyl-5-(2-hydroxypropyl)-. (See *Ipronal.*)
—, 5-allyl-5-isobutyl-2-thio-, identn., paper electroph., 2372.
—, 5-(2-bromoallyl)-5-isopropyl-1-methyl-. (See *Narcobarbital.*)
Barium, detmn., in blood plasma, by neutron activation, 1C.
    in marine deposits, by neutron activation, 3296.
    in presence of Ca, Mg and Sr, complexom., 751.
    spectroph., 3338.
    volum., 3334.
  sepn. from Ca, by ion exchange, 2606.
    from Sr, electroph., 2548.
      and other elements, by ion exchange, 1362.
Barium, reagents for, pyromellitic acid, 751.
  sulphonazo III, 3338.
Barium chloride dihydrate, differential thermal behaviour of, 762.
Barium sulphate, detmn., in pharm. products, gravim., 2352.
Barley, nitrogen factor for proteins of, in meat products, 3022.
Bauxite, detmn. of Al and Si in, X-ray spectrogr., 2620.
Beans, assay of trypsin and chymotrypsin in, 3050.
Bearing metal. (See under *Antimony alloys.*)
Beef. (See under *Meat.*)
Beer, analysis of volatiles in, by GLC, 1762.
  detection of formaldehyde in, spectroph., 3071.
  detmn. of amino-acids in, ion-exchange - gas chrom., 1767.
    of anthocyanogens and tannins in, 1766.
    of biacetyl in, photom., 1763.
      and pentane-2, 3-dione in, by GLC, 1764.
    of bitterness of, spectroph., 3072.
    of carbohydrates in, by GLC, as trimethylsilyl ethers, 1765.
      by TLC, 1170.
    of Fe,Co and Ni in, spectroph., 3070.
    of N compounds of high mol. wt. in, spectroph., 1769.
Beeswax, identn. of olefins in, column chrom., 2227.
Belladonna, detmn. of atropine in, conductim., 460.
  extraction of alkaloids of, with H_2O, use of surfactants in, 1109.
Bentonite, detmn. of cation-exchange capacity of, polarogr., 1177.
Benzaldehyde, detmn., volum., 920.
—, 4-acetamido-, isonicotinoylhydrazone, detmn., in tablets, in presence of thiacetazone, spectroph., 3775.
Benzamide, *N*-[bis(1-aziridinyl)phosphinyl]-, detmn., absorptiom., 492.

nz[*a*]anthracene, detmn., fluorim., 3554.
sepn. from other polycyclic hydrocarbons, by TLC, 291.
nzene, detection of impurities in, by GLC, 3743.
detmn. of impurities in, by GLC, 3529.
photom., 1465.
isotopic analysis of deuterated, by GLC, 248.
, **bromo-,** analysis of sulphonation products of, spectroph., 2814.
, **chloro-,** detmn., in industrial wastes in presence of trichlorophenol, by solvent extraction - GLC, 3890.
, **chlorodinitro-,** detmn., in presence of chloronitrobenzene, photom., 1475.
, **1-chloro-2-nitro-,** detmn., in presence of 1-chloro-4-nitrobenzene, photom., 1475.
, **1-chloro-4-nitro-,** detmn., in presence of 4-nitroanisole, by thermal analysis, 3544.
, **dinitro-,** detmn., photom., 1465.
, **ethyl-,** sepn. from xylenes, column chrom., 2190.
, **fluoro-,** detmn., by neutron activation - GLC, 2188.
NMR spectrum of, effect of solvent on, 918.
, **1-fluoro-2, 4-dinitro-,** detection, 1477.
, **nitro-,** detection of deriv. of, colour test for, 2811.
detmn., photom., 1465.
volum., 3545.
enzene derivatives, alkyl, analysis, by pyrolysis - GLC, 2189.
bromo-, labelled with ^{82}Br, GLC of, 272.
fluoro-, detmn., by neutron activation - GLC, 2188.
enzenesulphonamide, 4-chloro-*NN*-diethyl-3-nitro-, detection, 1477.
-, **3,4,4′-trichloro-,** identn., in presence of other sulphonamides, by TLC, 491.
enzenesulphonic acid, detmn., paper chrom. or electroph., 286.
-, **amino-,** detection of isomers of, in mixtures, 1478.
-, **2-amino-,** sepn. from sulphanilic acid, ion-exchange chrom., 287.
-, **4-amino-.** (See *Sulphanilic acid.*)
-, **4-iodo-,** labelled with ^{131}I or ^{35}S, detmn. of radiochemical purity of, paper chrom. or electroph., 286.
-, **isopropyl-.** Na salt, detmn., by solvent extraction - volum., 1498.
enzhexol hydrochloride, detmn., in pharm. prep., argentim., 2380.
gravim., 488.
in the drug and in tablets, volum., 3770.
non-aq. volum., or spectroph., 3769.
enzidine, detmn., complexom., 3538.
enzoate, detection, in presence of succinate, 1433.
enzocaine, detmn., in pharm. prep., spectroph., 1699.
in presence of phenazone, column chrom. - spectroph., 1689.
enzo[*c*]cinnoline, deriv. of, substituent effects on mass spectra of, 1483.
enzoic acid, detmn., in pharm. compound powders, volum., 496.
of aldehydes in, spectroph., 3536.
sepn. from anthranilic acid, by ion exchange, 2473.
from phenylalkanoic acids, by TLC of anilides, 3655.
—, **4-amino-,** detmn. of esters of, polarogr., as nitroso-deriv., 3765.
potentiom., 3542.
—, **2-, 3- and 4-hydroxy-,** analysis of mixtures of, by spectroph. titration, 922.
Benzoic acid, 4-hydroxy-, detmn. of esters of, in foods, by TLC - u.v. spectroph., 3062.
non-aq. potentiom., 3.
—, **2-hydroxy-4-methoxy-,** detection, on thin-layer plates, 3532.
—, **nitro-,** analysis of mixtures of 3- and 4-, by spectroph. titration, 2812.
Benzo[*ghi*]perylene, detmn., fluorim., 3554.
Benzophenone, 2-hydroxy-, detmn. of deriv. of, in plastics, by TLC, 3596.
Benzo[*a*]pyrene, detmn., fluorim., 3554.
in smoked foods, comparison of methods for, 1727.
in tobacco smoke, by GLC, 3652.
isolation from tobacco smoke, 373.
sepn. from coronene and phenanthrene, column chrom., 1845.
from other polycyclic hydrocarbons, by TLC, 291.
Benzo[*e*]pyrene, detmn., fluorim., 3554.
***p*-Benzoquinone,** detmn. of impurities in, spectrogr., 921.
Benzotef. {See *Benzamide,*[N-*bis*(1-*aziridinyl*)*phosphinyl*-].}
Benzothiazole-2-sulphenamide, *N*-cyclohexyl-, detmn. of Cu, Fe and Mn in, spectroph., 2851.
Benzoxazinylcarbamic acid, deriv. of, i.r. spectrophotometry of, 1485.
Benzydamine, identn., microscopic, 1701.
Benzyl alcohol, 4-hydroxy-α-hydroxymethyl-3-methoxy. (See *Ethanediol. 4-hydroxy-3-methoxyphenyl-.*)
Bephenium hydroxynaphthoate, detmn., spectroph., 3776.
Bergamot oil, concn. and identn. of trace components in, by GLC, 3580.
Beryllium, concn. of, on pyrogallol - formaldehyde resin, 3276.
detmn., atomic-emission or atomic-fluorescence spectroph., 3331.
by neutron activation, 3292.
in air or urine, atomic-absorption spectroph., 1814.
in industrial wastes, direct-reading spectrometer for, 580.
in minerals, ores or rocks, spectrogr., improvement of sensitivity of, 3297.
in presence of U, volum., 744.
of ^{7}Be in air or rain-water, in presence of ^{32}P, ^{90}Sr, ^{210}Pb and ^{210}Po, radiochemical schemes for, 563.
of O in, by fusion, 2079.
of H$_2$O in powder, 56.
sepn. from Al, Cr, Cu or Ag, by GLC of acetylacetonates and detmn., mass spectrom., 703.
Beryllium alloys, analysis of Ni - Fe - Co films on Be - Cu wire, by electron micro-probe, 2128.
Beta-emitters, measurement of activity of, interference of phosphorescence and after-pulsing in, 2525.
Betaine, identn., in mixtures with choline, betaine aldehyde and dimethylglycine, chrom., 3689.
Beverages, detmn. of ethanol in, pyknom., IUPAC report on, 3076.
turbidim, 1169.
of sorbitol, mannitol, invert sugar, glycerol and butane-2,3-diol in, by TLC - fluorim., 3042.
of sugars in, by TLC, 1170.
Biacetyl, detmn., in beer, photom., 1763.
in presence of pentane-2,3-dione, by GLC, 1764.

Biacetyl, determination—*continued*
in milk, by GLC, 3031.
photom., 1763.
Bicarbonate, detmn., in blood plasma or blood serum, by pH increase, spectroph., 3614.
2,2′-Bicinchoninic acid, detmn., u.v. spectroph., 2211.
Bile, sepn. of porphyrins in, by TLC on talc, 1075.
Bile acids, analysis, in faeces, after feeding ^{14}C-labelled, column chrom. - radiom., 3681.
of mixtures of, by GLC of trifluoroacetyl deriv. of methyl esters of, 1043.
detmn., in blood serum, by TLC, 410.
enzymic - gas chrom., 408.
in body fluids, enzymic, 1313C.
in faeces, by GLC, 407.
by TLC - fluorim., 1596.
identn., in rat bile, by TLC, 2313.
mass spectra of deriv. of, 2924.
TLC of, use of alkaline solvent system for, 409, 2312.
Bilirubin, detmn., fluorim., interference of Cu in, 1628.
in amniotic fluid, fluorim., 3721.
in presence of haemoglobin or methaemoglobin, spectroph., 2334.
in blood plasma, spectroph., 2333.
in blood serum, spectroph., 1079, 2335.
Biochemical analysis, 1968 annual review, 677.
report of conference on, 1313.
Biological fluids, analysis, automatic apparatus for, 1232P.
assay of antibiotics in, microbiol., 3622.
detection of glucose in, reagent and test paper for, 3643P.
of oxo-acids in, paper chrom. as 2,4-dinitrophenylhydrazones, 389.
detmn. of adrenaline and noradrenaline in, ion-exchange chrom. - fluorim., automated, 2314, 2315.
of barbiturates in, by GLC, 2888.
of Ca in, atomic-absorption spectroph., 986.
comparison of methods for, 1107.
of cysteine and cystine in, colorim., 1059.
of F in, 3096.
of ketones in, spectroph., 396.
of malic acid in, spectrofluorim., 2297.
of neutral and acidic drugs in, TLC - spectroph., 369.
of polyoxyethylene glycol in intestinal perfusate, i.r. spectroph., 2891.
of Na and K in, flame photom., 3608.
elimination of mutual interference in, 983.
homogeniser for, 3136.
sampling of, automatic apparatus for, 3900P.
Biological materials, detmn. of ^{14}C and ^{3}H-labelled compounds in, by liquid scintillation counting, combustion furnace for use in, 349.
of ^{14}C, ^{3}H and ^{35}S in, by liquid scintillation counting, combustion apparatus for, 350.
of trace elements in, by neutron activation, report of symposium on, 1.
Biological tissues, assay of histidine decarboxylase in, radiom., 454.
of *p*-nitrophenyl propionate esterase in, spectroph., 1098.
detection of asbestos fibre in, microscopic, 1545.
of ng to pg amounts of cations in, 998.
detmn. of acidic and neutral drugs in, by TLC - spectroph., 369.
of adrenaline and noradrenaline in, ion-exchange chrom. - fluorim., automated, 2314, 2315.
and dopamine in, by GLC as trifluoroacetates, 2927.

Biological tissues, determination—*continued*
of barbiturates in, by GLC, 2888.
of Cr in, coulom., 2877.
spectroph., 3617.
of collagen in, spectroph., 3713.
of Cu in, by neutron activation, 3610.
of ethoxyquin in, fluorim., 1558.
of F in, 3096.
of glutathione in, spectroph., 1613.
of glutethimide and 2-phenylglutarimide i by GLC, 3625.
of homovanillic acid in, by solvent extraction spectrofluorim., 1023.
of imipramine in, in presence of desipramin and trimipramine, by TLC - spectroph 2284.
of lipids in, by TLC - photom. and volum 1025.
of Mg in, fluorim., 2270.
of melengestrol acetate in, by TLC - spectroph 2286.
of Hg in, by isotope exchange, 2864.
, by neutron activation, 1543.
of nicotine in, by GLC, 1550.
of phosphatidylethanolamine in, by TLC - i. spectroph., 2305.
of ^{210}Po in, by alpha-counting, effect of dry ashing of sample on, 995.
of polyamines in, by ion exchange - TLC spectroph., 415.
of pyridine nucleotides in, fluorim., 438.
of RNA and DNA in, ion-exchange chrom 2953.
of Na and K in, flame-photom., 3607.
of sulphatides in, spectroph., 2303.
of testosterone and androst-4-ene-3,17-dion in, column - thin-layer chrom., 3677.
of trace elements in, mass spectrom., 1532.
spectrogr., 1533.
of trace metals in, semi-quant., by circula TLC, 2881.
of ^{3}H and ^{14}C in, by liquid-scintillation coun ing, 1538.
of ^{3}H, ^{14}C or ^{35}S in, by isotope dilution, metho of combustion for, 350, 1537.
of (+)-tubocurarine in, in presence of oth alkaloids, ion-exchange chrom. - spectroph 367.
of vitamin A in, by TLC - fluorim., 1090.
extraction of ^{14}C-labelled HEOD from, com parison of methods for, 1556.
identn. of inosine in unwashed lipid extracts o 440.
of organochlorine pesticides in, by solve extraction - TLC, 2288.
sepn. of lecithin, carnitine and acylcarnitines i column chrom., 1050.
of org. Br compounds in, paper and thin-lay chrom., and detmn., X-ray spectrogr., 228
Biotites, analysis of granitic, X-ray spectrogr., 20
Biphenol, identn., in urine, in presence of relate biphenyl metabolites, by TLC - u.v. spectroph 3639.
Biphenyl, detmn., in mixtures with terphenyl an quaterphenyl, by GLC, 3530.
sepn. from terphenyls, by GLC, 290.
Biscuits, detmn. of fumaric and maleic acids i ion-exchange - thin-layer chrom., 523.
Bismuth, detmn., by luminescence spectra at lo temp., 3301.
by solvent extraction - photom., 821, 2554.
complexom. - spectroph., 130.
gravim., 820.
in iron, spectrogr., 2115.

smuth, determination—*continued*
  in minerals, ores or rocks, complexom., 2692.
  in urine, ion-exchange chrom. - polarogr., 2276.
  of impurities in, atomic-absorption spectroph., 2562.
  photom., 3300.
  potentiom., 2693.
  spectroph., 2069, 2070.
  u.v. spectroph., 1969.
 sepn. from Sb^{III} and As^{III}, by TLC, 127.
  of ^{228}Ac, ^{228}Ra and ^{212}Pb from ^{212}Bi, column chrom., 31.
smuth, reagents for, bismuthiols, 2069.
 chlorpromazine hydrochloride, 820.
 dimethyl(selenocarbamoyl) dimethyldiselenocarbamate, 2554.
 haematoxylin, 2070.
 pyrrolidine-1-carbodithioic acid, NH$_4$ salt, 1969.
 xylenol orange, 3300.
smuth alloys, detmn. of Bi in, potentiom., 2693.
smuth(III) oxide, detmn. of Bi in, potentiom., 2693.
ttern, detmn. of Li in, fluorim., 577.
tumen, detmn. of wax in, 3570.
uret, detmn., in urea and fertilisers, ion-exchange chrom. - complexom., 1183.
ast-furnace gas, analysis, by GSC, 1961.
lood, assay of antibiotics in, microbiol., 3622.
  of enzymes in, photom., on electropherograms, 1648.
  of pepsin in, 1101.
  of renin in, by detmn. of angiotensin produced by, 450.
 detection of alkaloids in, by solvent extraction - TLC, 2882.
  of asbestos fibre in, microscopic, 1545.
 detmn. of acetaldehyde and ethanol in, by GLC, 3635.
  of adenine nucleotides in, by TLC - spectroph., 1082.
  of barbiturates in, spectroph., 2887.
  of bile acids in, by TLC, 410.
   enzymic - gas chrom., 408.
  of brompheniramine in, by solvent extraction and GLC, 2285.
  of CO$_2$ in, electrom., 2866.
   prepn. of a standard gas soln. for, 2867P.
  of CO in, photom., 1009.
   spectroph., 2892.
  of chloramphenicol in, spectroph., 1001.
  of Cr in, spectroph., 3617.
  of Co in, ion-exchange chrom. - spectroph., 2279.
  of CN$^-$ in, spectroph., 2893.
  of dextran in, spectroph., 2890.
  of 2-dimethylamino-3′,4′-dihydroxyacetophenone in, ion-exchange chrom. - spectroph., 3629.
  of ethanol in, by GLC, 1008, 3633.
    dual column technique, for, 3634.
  of glucose in, by 'Haemo-Glucotest' strip,2902.
   enzymic - spectroph., 1561, 2899.
   in presence of other aldoses, 2901.
   spectroph., 1014.
  of glutethimide in, in presence of its metabolites, by GLC, 2889.
   and 2-phenylglutarimide in, simult., by GLC, 3625.
  of haemoglobin iron in, spectroph., 365.
  of hexamethylmelamine in, ion-exchange chrom. - spectroph., 1007.
  of 3-hydroxybutyrate and acetoacetate in, enzymic - fluorim., 390.
  of 5-hydroxytryptamine in, stabilisers for samples in frozen storage, 3686.
Blood, determination—*continued*
  of imipramine in, in presence of desipramine and trimipramine, by TLC - spectroph., 2284.
  of Fe in spectroph., 2880.
  of ^{55}Fe and ^{59}Fe in, A.E.R.E. procedures for, 979.
  of ketone bodies in, by distillation and detmn. of acetone, photom., 396.
  of lactic acid in, enzymic - spectroph., 1577.
   and pyruvic acids in, enzymic - spectroph., 387.
  of Pb in, atomic-absorption spectroph., 360, 989, 2869.
  of ^{56}Mn, ^{42}K and ^{82}Br in, by neutron activation - NMR, removal of Na for, 1535.
  of Hg in, atomic-absorption spectroph., 2435.
   by neutron activation, 1543.
  of nicotine in, by GLC, 1550.
  of org. Br compounds in, paper and thin-layer chrom. - X-ray spectroph., 2280.
  of organochlorine pesticides in, by GLC, 2894.
  of oxo-acids in, by GLC of the methoximes, 3556.
  of O in, gasom., by modified Natelson technique, 3615.
   sampling in, 2876.
  of O-capacity of, by modified Van Slyke and Neill method, 431.
  of phenytoin in, u.v. spectroph., 1554.
  of propanidid in, 1313C.
  of protein-bound metals in, by gel filtration - radiom., 2854.
  of pyridine nucleotides in, fluorim., 438.
  of pyridoxine in, column chrom. - fluorim., 2959.
  of Se in, fluorim., 994.
  of trace metals in, semi-quant., by circular TLC, 2881.
  of ^{3}H, ^{14}C and ^{35}S in, by combustion - radiom., 350.
  of tyrosine in, fluorim., 2936.
  of ubiquinone-10 in, by TLC - spectroph., 1104.
  of urea in, automated, 2901.
  of vitamin A in, by TLC - fluorim., 1090.
 identn. of organochlorine pesticides in, by solvent extraction - TLC, 2288.
  of psychotomimetic drugs in, by TLC, 1005.
 nitrogen factor for pigs', 3021.
 sepn. from leucocyte-enriched blood, by centrifugal elutriation, apparatus for, 2263.
  of amino-acids in, by TLC, 3696.
Blood plasma, assay of 4-methylumbelliferyl-β-glucosidase in, fluorim., 3733.
  of plasminogen in, enzymic - spectroph., 426.
  of proteinase in, spectroph., 2971.
 detmn. of amino-acids in, ion-exchange chrom., automated, 2321.
  of HCO$_3^-$ in, by pH increase, spectroph., 3614.
  of bilirubin in, spectroph., 2333.
  of Cd in, atomic-absorption spectroph., 357.
  of Ca in, spectroph., 353, 1542.
  of chlorpromazine in, by GLC, 2282.
  of corticosteroids in, by TLC, 3679.
   fluorim., semi-automated, 1041.
  of creatinine in, by ion exchange - spectroph., 1048.
  of ^{2}H$_2$O in, by freezing-point elevation, 1536.
  of dextropropoxyphene in, by solvent extraction - GLC, 2281.
  of digitoxin in, enzymic, 2884.
  of 2-dimethylamino-3′,4′-dihydroxy-acetophenone in, ion-exchange chrom. - spectroph., 3629.

Blood plasma, determination—*continued*
  of glucose in, enzymic - fluorim., 1563.
  of hexamethylmelamine in, ion-exchange chrom. - spectroph., 1007.
  of hydrocortisone in, fluorim., elimination of interference in, 1042.
  of 3α-hydroxy-5β-androstan-17-one in, by GLC, 1592.
  of lecithin in, enzymic - spectroph., 3687.
  of progesterone, ^{3}H-labelled, in, by TLC - scintillation spectrom., 1038.
  of testosterone in, by GLC as heptafluorobutyrate, 1039.
  of tocopherols and carotenoids in, paper chrom., 3727.
  of ^{3}H, ^{14}C and ^{35}S in, by combustion - radiom., 350.
  of tryptophan, free and total non-protein-bound, in, spectroph., 1609.
  of uric acid, xanthine and hypoxanthine in, by TLC, 1080.
  of xanthine and hypoxanthine in, enzymic-spectroph., 2337.
  of Zn in, atomic-absorption spectroph., 2273.
   and Cu in, a.c. polarogr., 2863.
 sepn. of iodoamino-acids in, by gel filtration, 1061.
 of lipids from, paper chrom., 3664.
Blood serum. (See also *Proteins, blood-serum.*)
 analysis of commercial control prepn. of, 1531.
  of fatty acids of cholesteryl esters isolated from, by TLC - GLC, 1030.
 assay of aspartate aminotransferase in, colorim., 1096.
  of cholinesterase in, comparison of substrates for, 2969.
  of creatine kinase in, effect of haemolysis in, 3731.
   and transaminases in, 1313C.
  of gamma-glutamyl transpeptidase in, 1313C.
  of lipase in, photom., 1313C.
  of ornithine carbamoyltransferase in, spectroph., 2964.
  of pepsin in, comparison of methods for, 2970.
   spectroph., comparison of haemoglobins as substrates for, 2349.
 detection of organophosphorus pesticides in, by acetylcholinesterase assay, 1557.
 detmn. of albumin in, comparison of methods for, 1622.
  of amino-acids, free, in, ion-exchange - paper chrom., 2934.
  of HCO_3^- in, by pH increase, spectroph., 3614.
  of bile acids in, by TLC - densitom., 410.
  of bilirubin in, spectroph., 1079, 2335.
  of butanol-extractable I in, by ceric oxidation, 2331.
  of Ca in, automated, 352.
   by ultra-filtration - potentiom., 1541.
   flame spectroph., 2859.
  of Cl$^-$ and K$^+$ in, volum., 996.
  of cholesterol in, spectroph., 3671, 3672.
  of Cu in, atomic-absorption spectroph., 2858.
   photom., 3609.
   and Fe in, atomic-absorption spectroph., 1313C.
   and Zn in, atomic-absorption spectroph., 3611.
  of creatine in, enzymic - spectroph., 1046.
  of creatinine and urea in, simult., automated, 2318.
  of fatty acids in, spectroph., 381.
  of F$^-$ in, by GLC, as fluorotrimethylsilane, 3619.

Blood serum, determination—*continued*
  of glucose in, coulom., 1564.
   enzymic - spectroph., 2292.
  of haptoglobin in, spectroph., 1078.
  of 4-hydroxy-3-methoxymandelic acid in, ele troph. - radiom., 392.
  of inulin in, automated, 3647.
  of iodine, hormonal, in, in presence of ex genous, ion-exchange chrom., 997.
   protein-bound, in, automated, removal inorg. I$^-$ in, 2945.
  of 5-iodo-2-deoxyuridine in, enzymic - spe troph., 1633.
  of Fe in, spectroph., automated, 2278.
  of lipids in, by TLC - photom., and volum., 102
  of lipoproteins in, electroph., on cellulose ace ate strip, 1582.
  of Li in, atomic-absorption spectroph., 98 982, 2267.
  of Mg in, fluorim., 984, 1540.
  of mercapto-groups in, amperom., 1060.
  of metals, protein-bound, in, by gel filtratio neutron activation, 2855.
  of nitrazepam in, as benzophenone, 2283.
  of phenothiazine drugs in, spectrofluori 1004.
  of phenylalanine in, comparison of methods f 1608.
  of phenytoin in, by GLC, 1002.
  of PO_4^{3-}, in, modification of the Fisk Subbarow method for, 362.
   spectroph., 2872.
  of P in, spectroph., 2873.
  of proteins in, by TLC, membrane filters f 1615.
  of Na, K and Ca in, improvement in laborato performances, 2268.
  of Sr in, atomic-absorption spectroph., 2861.
  of tetracycline in, by microbiol. diffusi method, 1551.
  of thyroxine in, ion-exchange chrom. - colori 1610.
  of tocopherols in, spectroph., 1647.
   and carotenoids in, paper chrom., 3727.
  of trace elements in, mass spectrom., 1532.
   spectrogr., 1533.
  of transferrin and immunoglobin G in, pa electroph. - spectroph., 3715.
  of triglycerides in, by TLC and GLC of met esters, 2301.
  of [^{131}I]tri-iodothyronine in, by resin adsorpti and scintillation counting, 1062.
  of uric acid in, photom., automated, 2925.
  of vitamin B_{12} in, by ^{57}Co dilution, 2960.
 electrophoresis of lipoproteins of, in agarose g 428.
 identn. of phenolic acids in, paper chrom., 15
 recovery of uric acid from, after pptn. of protei 1629.
 sepn. of lipoproteins of, by agarose gel filtrati 2947.
Blood-serum proteins. (See *Proteins, blood serum*
Boiling-point, detmn., by DTA, 2531.
Bone, detmn. of F$^-$ in, by GLC as fluorotrimeth silane, 3619.
   potentiom., 364.
  of Sr in, column chrom. - flame photom., 3
   X-ray spectrogr., 2862.
  of trace elements in, spectrogr., 1533.
  of ^{3}H, ^{14}C and ^{35}S in, by combustion - radio 350.
Borate, tetrafluoro-, detmn., spectroph., 3347.
—, tetrahydro-, detmn., potentiom., with K_3Fe(C catalysed by OsO_4, 3346.

ron, detmn., by neutron activation, 3292.
fluorim., 70.
in aluminium, spectroph., as BF_4^- - methylene blue complex, 3349.
in iron, spectrogr., 2115.
in minerals, ores or rocks, spectrogr., 2618.
in presence of polyphenyls, i.r. spectroph., 2191.
in silica, by ion-exchange - spectrogr., 2010.
in steel, photom., 1420.
in tin, fluorim., 115.
of impurities in, atomic-emission or -absorption spectroph., 2011.
spectrogr., 759.
of O in, by fusion, 2079.
potentiom., as tetrafluoroborate, 2009.
ron, reagents for, acetylsalicylic acid, 70.
benzoin, 115.
Solvent Violet 13, 1420.
ron nitride, detmn. of O in, by fusion, 2079.
ron(III) oxide, detmn., in presence of NH_4Cl and Ca salts, potentiom., 2012.
ron phosphide, analysis, method of decomposition for, 3348.
rain, assay of glutamate decarboxylate in, radiom., 3738.
detmn. of acetylcholine in, by GLC of acetic acid in hydrolysates of, 1049.
of 4-aminobutyric acid in, by TLC - spectroph., 2939.
of Ca and Mg in, atomic-absorption spectroph., 2860.
of noradrenaline, dopamine and 5-hydroxytryptamine in, fluorim., 1598.
of predonine in, spectroph., by modified Silber - Porter procedure, 2885.
of succinic acid in, enzymic - spectroph., 386.
sepn. of ^{14}C-labelled metabolites in, ion-exchange chrom. - scintillation counting, 3644.
rass, analysis, radioisotope X-ray spectrom., 3978.
read, detmn. of fumaric and maleic acids in, ion-exchange - thin-layer chrom., 523.
of lactose and butter fat in milk bread, 1151.
reath, detmn. of CO_2 in, by i.r. absorption, recorder for, 1010.
of ethanol in, 3631P, 3632P.
rine, detmn. of Br in, X-ray spectrogr., 1213.
of inorg. C in, as CO_2, analyser for, 3885P.
romacil, detmn., in soil, by GLC, 1795.
romide, detmn., by solvent extraction of $^{203}HgBr_2$ and gamma-spectrometry, 2729.
in natural water and foods, absorptiom., 3872.
in presence of Cl^-, polarogr., 1413.
potentiom., 161, 3435.
Bromine, detmn., in brine, X-ray spectrogr., 1213.
in c.s.f., by solvent extraction - volum., 3621.
of ^{82}Br, reactions induced by isomeric transitions in, 3436.
of impurities in, i.r. spectroph., 2099.
Bromisoval, detmn., in biol. materials, paper and thin-layer chrom. - X-ray spectroph., 2280.
Bromite, detmn., polarogr., 851.
Brompheniramine, detmn., in blood and urine, by solvent extraction - GLC, 2285.
Bromvaletone, detmn., in pharm. tablets, in presence of acetylcarbromal, column chrom. - spectroph., 1685.
Bronze. (See *Tungsten bronze.*)
Brucine, detmn., complexom., 3538.
identn., in presence of strychnine and physostigmine, by TLC, 2977.
Bufadienolides, detmn., by GLC as trimethylsilyl ethers, 2982.
Buffer solutions, use of piperazine phosphate as, 7.
Burettes. (See under *Laboratory apparatus.*)
Butadiene, detection of acetylenes in, column chrom., automated, 891.
—, hexachloro-, detmn., in water and soil, polarogr., 550.
Butallylonal, detmn., in barbiturate mixtures, by TLC - volum., 2371.
Butane, analysis of nitration products of, by GLC, 1448.
detmn. of thiol-S in, B.S.I. method for, 305.
—, 2-amino-, detmn., in citrus fruit or air, colorim., 527.
—, diantipyrinyl-, detmn., photom., 3525.
Butane-2,3-diol, detmn., in beverages, in presence of sorbitol, mannitol, glycerol and invert sugar, by TLC - fluorim., 3042.
sepn. of diastereoisomers of diesters of C_2 to C_6 acids, by GLC, 257.
But-2-ene-1,4-diol, detmn., in presence of but-2-yne-1,4-diol, volum., 2163.
Buthalitone sodium, sepn. from other barbiturates or thiobarbiturates, by TLC, 1127.
Butobarbitone, identn., i.r. spectroph., 1680.
Butter, detmn. of C_4, C_6 and C_8 fatty acids in, by GLC, 3039.
of Cu in, polarogr., 2535C.
Butter fat, analysis of fatty acids of, by GLC as methyl esters, 1159.
detection of adulteration of, by hydrogenated arachis oil, tallow and Mowrah oil, by TLC of saturated glycerides of, 3802.
with dibutyl phthalate, in unsap. matter sepd. by TLC, by GLC - mass spectrom., 537.
detmn., in milk bread, by temp.-programmed GLC, 1151.
of butyric acid in, by GLC, 3820.
prepn. of methyl esters of, 3819.
sepn. of methyl esters of, by TLC on Silica gel G - $AgNO_3$, 516.
Buttermilk, detmn. of proteins in, by dye-binding method, 3034.
Butylated hydroxyanisole. (See *Phenol, t-butyl-4-methoxy-.*)
Butylated hydroxytoluene. (See p-*Cresol, 2,6-di-t-butyl-.*)
Butylene oxide, detmn., in mixtures with aldehydes, by GLC, 233.
Butyric acid, detmn., in butter fat, by GLC, 3820.
—, 4-amino-, detmn., in biol. tissues, as dansyl deriv., by TLC - fluorim., 2940.
in brain, by TLC - spectroph., 2939.
in malt wort, in presence of ornithine, column chrom., 1768.
—, 3-hydroxy-, detmn., in blood, in presence of other org. acids, by temp.-programmed GLC, 3656.
and urine, enzymic - fluorim., 390.
—, indol-3-yl-, detmn., spectroph., 1184.
—, 4-phenyl-, sepn. from other phenylalkanoic acids, by TLC of the anilides of, 3655.

C

C.O.D. (See under *Water, natural.*)
Cabbage, analysis of volatile constituents in cooked, by GLC of distillate, 1740.
Cacao, identn. of volatile constituents of, by GLC - i.r. spectroph. or mass spectrom., 530.
Cacao butter, analysis of fatty acids of, by GLC, 3084.
detection of cacao-shell fat in, 1175.
Cadmium, detection, in autopsy materials, as diethyldithiocarbamate, 359.
detmn., complexom., 756.
in non-aq. media, 707.
fluorim., 60.

- **Cadmium,** determination—*continued*
    - gravim., 1326, 2615.
    - in blood serum and urine, atomic-absorption spectroph., 357.
    - in $CdCl_2$ - KCl - LiCl eutectic mixture, atomic-absorption spectroph., 64.
    - in flowing soln. by neutron absorption, 2616.
    - in phosphorite, anodic-stripping voltamm., 1399.
    - in presence of Cu and Zn, complexom., 698.
    - in urine, atomic-absorption spectroph., salt effect in, 358.
    - in wine, atomic-absorption spectroph., 3073.
    - mercurim., as pyridine - SCN^- complex, 23.
    - of 10^{-6} to 10^{-15} g amounts, by isotope dilution and rate of evaporation from solid surfaces, 3283.
    - of Co, In and Sn in, spectrogr., 67.
    - of Fe in, spectroph., 66.
    - of Ag in, by catalytic method, 2610.
    - photom., 3300.
    - polarogr., as alkyldithiocarbamate, 268.
    - u.v. spectroph., 1969.
  - electro-reduction of Cd^{II} in molten $NaNO_3$ - KNO_3, 22.
  - sepn. from Co, Ni and Zn, and detmn., 704.
    - from other metals, by solvent extraction with salicylaldoxime, 700.
    - from Zn, as vapours, by GLC, 2611.
  - solvent extraction of, from aq. soln. of $CdCl_2$ or $CdBr_2$, with trioctylamine, 65.
    - with diantipyrinylmethane in HCl soln., 755.
  - suppression of polarogr. maximum of, by aliphatic alcohols, 3302.
- **Cadmium, reagents for,** diethyldithiocarbamic acid, Na salt, 359.
  - quinoxaline-2-carboxylic acid, 1326.
  - tetramethylenedithiocarbamic acid, NH_4 salt, 1969.
  - 8-(toluene-*p*-sulphonamido)quinoline, 60.
  - xylenol orange, 3300.
- **Cadmium alloys,** analysis, coulom. - substoicheiom., automated, 2557.
- **Cadmium sulphide,** detmn. of Cl^- in, amperom., 3341.
- **Caesium,** adsorption from soln., by $Cu_2Fe(CN)_6$, 3324.
  - detmn., by solvent extraction - spectroph., 3288.
    - in minerals, ores or rocks, by neutron activation with coincidence counting, 2671.
      - X-ray spectrogr. or atomic-absorption spectroph., 2583.
    - in sea water, flame photom., automated sample-changing system for, 1207.
    - of ^{137}Cs in fission products, by sorption on NH_4 molybdophosphate, 102.
      - radiom., 3325.
      - in org. compounds, radiom., 2783.
      - in plutonium(IV) oxide, gamma-spectrom., 2661.
    - potentiom., 2584.
  - flame-emission intensity of, in various gas compositions, 2582.
  - sepn. from Rb, column chrom., 725.
    - of ^{137}Cs from ^{22}Na, by ion exchange, 1984.
- **Caffeine,** detmn., in decaffeinated coffee, column chrom. - non-aq. volum., 529.
    - spectroph., 1754.
  - in pharm. prep., in presence of aspirin, salicylamide and paracetamol, spectroph., 2373.
    - of phenacetin, amidopyrine and phenazone, by TLC - spectroph., 1687.
  - in tea, spectroph., 3064.
  - non-aq. volum., indicators for, 2541.
- **Calcium,** detmn., atomic-absorption spectroph., interferences in, 747.
    - atomic-fluorescence spectroph., elimination of interferences in, 1359.
    - by solvent extraction - atomic-absorption spectroph., 2604.
    - in ammonium alum, by ion exchange - complexom., 1366.
    - in biol. fluids, atomic-absorption spectroph., 986.
      - comparison of methods for, 1107.
    - in biol. tissues and c.s.f., atomic-absorption spectroph., 2860.
    - in blood plasma, spectroph., 353, 1542.
    - in blood serum, automated, 352.
      - by ultra-filtration - potentiom., 1541.
      - collaborative study of, 2268.
      - flame spectroph., 2859.
    - in Ca Al silicate, volum., 3334.
    - in dolomites, complexom., 748.
    - in drugs, complexom., use of ^{110m}Ag as indicator in, 456.
    - in hydroxylapatite, 1333.
    - in magnesite, complexom., by co-pptn. with $SrSO_4$, 2002.
    - in milk, ion-exchange chrom. - volum., 3030.
    - in minerals, ores or rocks, ion-exchange chrom., 2605.
    - in natural water, complexom., 567.
    - in plants, complexom., 2265.
      - X-ray spectrogr., 3606.
    - in presence of Mg, complexom., with photom. end-point, 3333.
    - in sea water, complexom., 1208.
      - ion-exchange chrom. - complexom., 985.
      - spectroph., 2859.
    - in vegetables, canned, volum., 3045.
    - in whole body, by *in vivo* neutron activation, 2271.
    - of 10^{-6} to 10^{-15} g amounts, by isotope dilution and rate of evaporation from solid surfaces, 3283.
    - of ^{45}Ca in urine, by liquid scintillation counting, 979.
    - potentiom., with Ca-sensitive electrodes, 1304.
    - spectroph., 58, 746.
    - volum., 3334.
  - sepn. from Al, Mg and other elements, ion-exchange chrom., 2605.
    - from Ba, by ion exchange, 2606.
- **Calcium, reagents for,** anthrapurpurin, 58, 746.
  - glyoxal bis(2-hydroxyanil), 353.
  - naphthenic acid, 2604.
  - Plasmocorinth B, 1542.
- **Calcium aluminium silicate,** detmn. of Ca in, volum., 3334.
- **Calcium ascorbate,** detmn., in analgesic and antipyretic prep., volum., 1687.
- **Calcium carbonate,** detmn. of Ca in, complexom., 3335.
  - of Cu in, anodic-stripping voltamm., 59.
- **Calcium hydrogen phosphate,** detmn. of Cu in, anodic-stripping voltamm., 59.
- **Calcium oxide,** detmn., in molten NaCl - $CaCl_2$, polarogr., 2003.
  - phase analysis of the system CaO - ZrO_2 - SiO_2, 3295.
- **Calcium polyphosphates,** analysis, paper chrom., 1360.
- **Calcium sulphide,** detmn. of Fe in, by catalytic method, 2004.
- **Camphechlor,** detmn., in animal dips, automated coulom., 1804.

amphechlor, determination—*continued*
in crop residues, in presence of Aramite, DDT and endrin, by TLC - GLC, 1805.
in foods, ring colorim. - TLC, 1801.
amphor, detmn., in propellents, by GLC, 978.
annabinol, tetrahydro-, detmn., in marijuana and hashish, by TLC, 2361.
annabis, analysis, by TLC and GLC, 1664.
antharidin, prepn. of crystals of, for profile-angle measurement, 469.
apreomycin, sepn. from other tuberculostatic antibiotics and identn., by TLC, 3750.
aprolactam, analysis of nitrosating soln. used in manufacture of, 2239.
detmn., in industrial wastes, by TLC, 3892.
of salts of, potentiom., 961.
apsicum, detmn. of extractable colour in, spectroph., 1744.
arbamic acid, detmn. of pyridyl-substituted deriv. of, non-aq. potentiom., 3558.
mass spectra of deriv. of, 557.
—, dialkyldithio-, detmn., polarogr., 912.
—, diethyldithio-, Na salt, detmn., polarogr., 3526.
—, methyl-, 2-(1,3-dithiolan-2-yl)phenyl ester, detmn., in crops, gas chrom. - microwave spectrom., 2428.
2-naphthyl ester, detmn., in crops, gas chrom. - microwave spectrom., 2429.
arbanolate, detmn., in crops, gas chrom. - microwave spectrom., 2428.
arbaryl, detmn., in apples and spinach, by TLC, 1751.
in crops, by GLC, 2410.
in formulations, by hydrolysis - volum., 1189.
comparison of methods for, 558.
in hen skin, 2896.
in tobacco and tobacco smoke, by solvent extraction - TLC, 3638.
semi-quant., on crops and in foods, by TLC, 1812.
paper chromatography of, 2429.
arbazole, 9-vinyl-, NMR and i.r. spectra of, 2208.
arbides, detmn. of C in, collaborative study of, 2045.
arbinoxamine maleate, detmn., in tablets containing caffeine, sulphamethoxypyridazine and alginic acid, column chrom. - spectroph., 1703.
arbohydrates. (See also *Sugars.*)
detmn., in aq. soln., by pyrolysis - GLC, 2166.
in boiler water, apparatus for, 3883P.
in glycoprotein hydrolysates, by TLC, 2898.
in urine, ion-exchange chrom., automated, 2290.
of OH-groups in, by esterification with alkyl borates, 2792.
photom., with phenol - H_2SO_4, effect of borate on, 3505.
GLC of, 2C.
in maize syrup, 504.
resolution of racemic, by GLC, 3506.
TLC of, 245.
arbon, detmn., in coal, by gamma-irradiation, 2223.
in cobalt, by combustion, without flux, 1387.
in natural water, volum., 568.
in nickel, by combustion, without flux, 1387.
in org. compounds (see under *Organic compounds.*)
in steel, 1421.
by combustion, without flux, 1387.
coulom., collaborative study of, 2739.
in uranium, sampling for, 2654.
of ^{13}C:^{12}C ratio in dissolved org. matter in sea-water, manom., as CO_2, 3613.
of ^{14}C, by scintillation counting, prepn. of mixtures for, 3251.
Carbon, determination—*continued*
in biol. tissues, by liquid scintillation counting, 1538.
of inorg., in industrial wastes and brine, as CO_2, analyser for, 3885P.
Carbon, activated, detmn. of Cu in, anodic-stripping voltamm., 2663.
Carbon alloys, detmn. of C in, collaborative study of, 2045.
Carbon dioxide, analysis of mixtures with SO_2 and Cl, by GLC, 750.
detmn., in air, apparatus for, 3903P.
mass spectrom., 1815.
in blood, electrom., 2866.
prepn. of standard gas soln. for, 2867P
spectroph., 2892.
in breath, i.r. absorptiom., recorder for, 1010.
in gas streams evolved from biol. tissues, conductim., 1544.
in other gases, by GLC, 605.
i.r. spectroph., interferences in, 2664.
sepn. from Ar, CO, H_2S, O and SO_2, by GLC, 3305.
from COF_2, by GLC, 103.
Carbon disulphide, absorption from polluted air, comparison of absorbents for, 3860.
detection, in air, colour reaction for, 1195.
detmn., in cereals after fumigation, by GLC, 3857.
Carbon monoxide, detmn., in air, photom., continuous, 561.
and blood, photom., 1009.
in hydrogen from catalytic reforming process, by adsorption and GLC, 2214.
of dissolved, in sea water, by GLC, 1209.
sepn. from Ar, CO_2, H_2S, O and SO_2, by GLC, 3305.
Carbon tetrachloride, detmn., in cereals after fumigation, by GLC, 3857.
in presence of methyl isocyanate, by GLC, 2179.
Carbonate, detmn., in dental enamel and bone, microscopic, 1011.
in presence of CN^- and OCN^-, 791.
in evaporated milk, photom., 509.
Carbonyl compounds. (See also *Aldehydes; Ketones.*)
detmn., conductim., 2809.
Carbonyl fluoride, sepn. from CO_2, by GLC, 103.
Carbonyl groups, i.r. absorption of, in semicarbazides, semicarbazones and pyrazolecarboxamides, 2148.
Carbophenothion, detmn., by GLC, after clean-up by co-distillation, 1808.
dual-detection systems for, 1806.
on seeds, by solvent extraction - GLC at 200°, 1799.
o-Carboranes, TLC of, 2212.
Carboxylic acid esters, detmn., by hydrolysis - non-aq. potentiom., 3518.
Carboxylic acid hydrazides, detmn., photom., 3514.
Carboxylic acids. (See also *Fatty acids.*)
acetylenic, TLC of, 3512.
aliphatic, C_2 to C_{10}, and deriv. of, GLC of, 250.
analysis, in erythrocytes, by GLC, 380.
of mixtures of branched-chain alkanoic, and their isobutyl esters, by GLC, 256.
aromatic, detmn., by solvent extraction - fluorim., 1470.
detmn., automated methods for, 2910.
in natural water, polarogr., 570.
in urine, column chrom. - volum., 2294.
of Cr in, spectrogr., 292.
on paper chromatograms 900.
potentiom., study of, 254.
GLC of, comparison of solid supports for, 279.

Carboxylic acids,—*continued*
  TLC of compounds of biochem. interest, 1579.
  titration of nanomole amounts in column-chrom. eluates, automated, 3513.
Carboxylic acids, citric acid cycle, detmn., by GLC of methyl esters, 382.
  sepn., by TLC, 3657.
    of methoximes and other deriv. of, by GLC, temp.-programmed, 3658.
Carboxylic acids, hydroxy-, identn., in bacterial cells, by GLC or TLC, 2296.
Carboxylic acids, oxo-, detection, in biol. fluids, paper chrom., as 2,4-dinitrophenylhydrazones, 389.
  sepn., by TLC of 2,4-dinitrophenylhydrazones, 388.
    from biol. materials, as 2,4-dinitrophenylhydrazones, paper chrom., 3661.
  TLC of, 2312.
Carboxylic acids, phenolic, identn., in blood plasma, paper chrom., 1578.
Carboxylic acids, polyamino-, detmn., in soil, paper chrom., or electroph., 1180.
Carboxylic acids, polybasic, calculation of H-ion concn. of aq. soln. of, 3231.
Carbromal, detmn., in biol. materials, paper and thin-layer chrom. and X-ray spectrogr., 2280.
Cardiac glycosides, identn., by GLC - mass spectrom., as trimethylsilyl ethers, 1116.
Carnitine, ^{14}C-labelled, sepn. from [^{14}C]-carnitine palmitate and lecitihin, in biol. tissues, column chrom., 1050.
β-Carotenal, 8′-apo-, detection, in bakery products, 3793.
Carotenoids, detmn., in blood serum, in presence of tocopherols, paper chrom., 3727.
    in semolina and flour, column chrom. - spectroph., 3793.
Carrots, detmn. of Sn in, spectroph., 2397.
Carvacrol, detmn., in thyme, comparison of methods for, 489.
Casein, detmn., in milk, pptn. method for, 3801.
  fractionation, by gel filtration on Sephadex, 514.
Cashew nut, detmn. of anacardic acids in, chrom. techniques for, 1163.
Cassia, detmn. of steam-volatile oil in, 1743.
Castor oil, detection, in other fats, by TLC of fatty acids, 3082.
    of alien glycerides or fatty acids in, by TLC, 3082.
Catalpa seeds, microchem. study of, 468.
Catalysts, detmn. of Sb and Fe in, 817.
    of Cl$^-$ in, silver, X-ray spectrogr., 740.
    of Mo and V in, photom., 2072.
    of Ni in Ni - Al_2O_3 - SiO_2, 2126.
  measurement of H adsorption on nickel and platinum, by GLC, 191.
Catechins, detmn., in apples, spectroph., 1162.
Catechol, detmn., in wood tar, paper chrom., 957.
  sepn. from other phenols and aldehydes, by GLC, 274.
Catechol derivatives, detection, by TLC, 3532.
  detmn., i.r. spectroph., as Pb salts, 3533.
Catecholamines, detection, on paper or thin-layer chromatograms, 2316.
  detmn., in urine, by TLC, 411.
  sepn. from other tissue amines, by TLC, 414.
    of metabolites of, ion-exchange, chrom. - spectroph. or paper chrom., 1045.
Cations, detmn. of inorg., i.r. spectroph., 14.
  sepn. and detection of ng to pg amounts, 998.
    column chrom., on polyacrylamide and dextran gels, 1330.
Cellulose, detmn., in 'acid detergent fibre', 3108.
  identn. of irradiated, by detmn. of deoxy-compounds in, photom. as 2-deoxyglucose, 3791.
  titration studies on, 320.
—, carboxymethyl-, detmn., photom., 899.
Cellulose acetate, detmn. of H_2O in acetic acid soln. of, ultrasonic, 1505.
Cellulose esters, detmn. of acetic and higher fatty acids in, volum., 2835.
Cellulose ethers, detmn. of ethoxy-groups in, 3583.
Cellulose nitrate, detmn. of nitrolignin in, viscosim., 1506.
Cement, analysis, comparison of methods for, 2143.
  detmn. of Cl$^-$ in, comparison of methods for, 885.
Centrifugation, apparatus for small vol., 2451.
  closed continuous-flow apparatus for, 590.
  dextran medium for density-gradient sepn. by, 348.
  differential, in angle-head rotors, 1227.
  high-speed capillary, technique for, 1839.
  mechanical safety requirements for laboratory apparatus, B.S.I. specification for, 591.
  temp.-control system for Spinco instrument, 3915.
Cereal products, analysis, applications of NMR in, 2C.
Cereals, assay of α-amylase activity in, collaborative studies of methods for, 2400.
  detmn. of bromomethane residues in, 1166.
    of Co, Cu and Ni in, by TLC - spectroph., 1779.
    of fumigants in, by GLC, 3857.
    of lipids in, by solvent distillation, 3089.
    of pesticides in, by gel filtration - GLC, 1798.
    of P in, comparison of methods of preparing samples for, 3090.
Cereals, breakfast, detmn. of BHA and BHT in, by GLC, 3063.
Cerebrospinal fluid, detmn. of Br in, by solvent extraction - volum., 3621.
    of Ca and Mg in, atomic-absorption spectroph., 2860.
    of creatine in, enzymic - spectroph., 1046.
    of glucose in, enzymic - spectroph., 2292.
    of 5-iodo-2-deoxyuridine in, enzymic - spectroph., 1633.
    of proteins in, by TLC, membrane filters for, 1615.
      spectroph., prepn. of biuret reagent for, 425.
    of trace elements in, by neutron activation, 10
Cerium, detmn., in iron, X-ray spectrogr., 2738.
    in presence of Th, volum., 93.
    in Y oxide, spectrofluorim., 1372.
    of Ce^{III}, in presence of Al, Cu or Fe, complexom., 2025.
        of Th, complexom., 3366.
      voltamm., 91.
    of Ce^{IV}, in presence of other metals, amperom., 3269.
    of ^{144}Ce in fission products, by solvent extraction, 777.
        column chrom., 778.
      in Pu^{IV} oxide, gamma-spectrom., 2661.
    of radio-, in fission products, column chrom. gamma-counting, 2041.
    photom., 3365.
  sepn., as CeO_2 from La and Y, by autoclaving, 92
    from Am and La, paper chrom., synergism in, 1385.
    from other rare-earth metals, by TLC, 3364.
  solvent extraction of, by bis(2-ethylhexyl) phosphate, influence of Mg, K and Na on, 2642.
Cerium, reagents for, bis(2-ethylhexyl) hydrogen phosphate, 777, 778.
  2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-1-naphthol, 3365.

Cerium(III) chloride, solvent extraction of, from HCl medium, by di-isopropyl methylphosphonate, 2647.
Chalk, detmn. of Al in, photom., 2621.
Charcoal, activated. (See *Carbon, activated.*)
Chavicol, methyl-, detmn., in tarragon oil, spectroph., 2831.
Cheese, analysis of free fatty acids in, by ion exchange and GLC of methyl esters, 2402.
  detmn. of NO_2^- in, spectroph., 1158.
    of phenols in, paper chrom. - spectroph., 502.
    of vitamins B_1 and B_2 in, spectrofluorim., 515.
    of volatile esters produced by *Pseudomonas fragi* in, by GLC, 3038.
  identn. of volatile flavours in, by temp.-programmed GLC, 2401.
Chick oedema factor, detmn., in fats and fatty acids, by GLC, collaborative study of, 3114.
Chlophedianol, detmn., in aq. soln., volum. or colorim., 3006.
Chloral hydrate, detmn., in drugs, photom., 1697.
Chloramben, detmn., semi-quant., ring colorim., 1185.
Chloramphenicol, detection, in pharm. prep., paper chrom., 1108.
  detmn., in blood, spectroph., 1001.
    in mixtures with sulphadimethoxine and tetracycline hydrochloride, by TLC - spectroph., 1117.
    in ophthalmic soln. after storage, comparison of chemical and microbiol. methods for, 471.
  identn., in injections, paper chrom., 3747.
Chlorate, detection, in presence of ClO_4^-, 1411.
  detmn., in mixtures with ClO_2, $HClO_2$, ClO_2^- and Cl^-, 2096.
    spectroph., 1412.
Chlordane, detmn., in animal dips, automated coulom., 1804.
Chlordiazepoxide, detection of impurities in, by TLC, 2377.
  detmn., in lozenges, gravim. or colorim., as reineckate, 2994.
    in pharm. prep., by fluorescence intensity, 3761. gravim. or volum., 2378.
    in urine, 2283.
Chlorfenvinphos, detmn., in seeds, by solvent extraction - GLC, 1799.
    in soil, in presence of its breakdown products, by GLC, 2427.
Chloride, detmn., argentim., equation for calculation of error due to NH_4^+, 2725.
    by solvent extraction of $^{203}HgCl_2$ and gamma-spectrometry, 2729.
    in blood serum, volum., 996.
    in mixtures with ClO_2, $HClO_2$, ClO_2^- and ClO_3^-, 2096.
    in natural water, radiom., 1826.
    in presence of Br^- and I^-, polarogr., 1413.
    in refractory Ag catalysts, X-ray spectrogr., 740.
    mercurim., indicator for, 2726.
    potentiom., 161, 2728, 3435.
  sepn. from acetate, by ion exchange, 2474.
    from SCN^-, by ion exchange, 2474.
Chlorine, analysis of mixtures with CO_2 and SO_2, by GLC, 750.
  detmn., in air, absorptiom., 1199.
    in aq. soln., potentiom., 2727.
    in coal, by O-flask combustion, 2142.
    in natural water, colorim., 1825.
    in petroleum, 1487.
    in titanium sponge, X-ray spectrogr., 2059.
    of dissolved, in natural water, test strip for, 3867P.
Chlorine dioxide, detmn. in mixtures with $HClO_2$, ClO_2^-, ClO_3^-, and Cl^-, 2096.
Chlorite, detmn., in mixtures with ClO_2, $HClO_2$. ClO_3^- and Cl^-, 2096.
Chlorite (*clay mineral*), detmn. of cation-exchange capacity of synthetic, polarogr., 1177.
Chlorogenic acid, detmn., in apples, spectroph., 1162.
    in plants, column chrom. and by GLC, 2908.
Chlorophyll, detmn., in leaves, spectroph., 3716.
    of a and b in mixtures, spectroph., 1077.
      in plant extracts, spectroph., 1076.
Chlorous acid, detmn., in mixtures with ClO_2, ClO_2^-, ClO_3^- and Cl^-, 2096.
Chlorphentermine, detmn., in urine, by GLC, 3628.
Chlorpromazine, detmn., in blood plasma, by GLC, 2282.
    in pharm. products, volum., 2376.
Chlorprothixene, sepn. from related phenothiazines, by TLC, 1694.
Chlorquinaldol, detmn., spectroph., 490.
Chlortetracycline, detection, in pharm. mixtures, paper chrom., 1108.
  identn., in feeding-stuffs, microscopic, 3110.
    in ointments, paper or thin-layer chrom., 3747.
Chocolate, detmn. of fat in, refractom., 1152.
    of fat-free cacao alkaloids in milk-, by TLC, 3016.
    of proteins in, by dye-binding method, 3034.
Cholecalciferol, detmn., in pharm. prep., in presence of ergocalciferol, by GLC, 2990.
    in vitamin D high-potency prep., by TLC - spectroph., 3752.
  sepn. from ergocalciferol, by GLC of their isotachysterol isomers, 2991.
Cholestanol, deriv. of, identn., by TLC and GLC, 1029.
Cholestanone, deriv. of, identn., by TLC and GLC, 1029.
Cholest-5-ene-3β,19-diol, detmn. of the position of the hydroxy group in, mass spectrom., 2915.
Cholest-4-en-3-one, detmn. of the position of the hydroxy group in monohydroxy deriv. of, mass spectrom., 2915.
Cholesterol, ^{14}C-labelled, detmn., simult. with long-chain fatty acids, paper chrom., 1588.
  detection, on TLC plates, spray reagent for, 2307.
  detmn., in blood serum, spectroph., use of ethanolic $FeCl_3$-H_2SO_4 reagent in, 3671, 3672.
    polarogr., as dinitrobenzoate or dinitrophenyl ether, 238.
  preparative GLC of deriv. of, 3673.
Cholesteryl esters, analysis of fatty acids of, in blood serum, by TLC - GLC, 1030.
  detection, on TLC plates, spray reagent for, 2307.
Choline, detmn., in feeding-stuffs, discussion of methods for, 3109.
  identn., in mixtures with betaine aldehyde, betaine and dimethylglycine, chrom. methods for, 3689.
—, acetyl-, detmn. in brain hydrolysates, by GLC of acetic acid in, 1049.
—, *N*-benzyloxycarbonyl-L-glutamyl-, sepn. from choline chloride, ion-exchange - paper chrom., 3688.
Chondroitin sulphate, detmn. of SO_4^{2-} in, flame photom., 1015.
Chromatography (*general*), 1968 annual reviews, 677, 1948.
  use of adsorbent threads in, 3934.
Chromatography, column, apparatus for, 1844, 1845, 3150P, 3151P.
    for analysis of eluents from, 3918P.

- **Chromatography, column,**—*continued*
  - automated technique for prevention of drying of columns in, 3923.
  - detection in, apparatus for, 1237P, 1847P.
    - by flame ionisation, noise reduction in, 3149.
    - use of electron-capture detector for, 3929.
      - of vapour-pressure detector for, 3152.
  - gel-, apparatus for, 3926P.
    - oil-insol. agents for, 3180P.
    - study of, 1882.
    - use of modified selector valve in recycling, 3928.
  - improved flow-rate with Sephadex superfine G-200, 3927.
  - linear-gradient, apparatus for, 587.
  - previous application of gel filtration for biol. extracts, 1616.
  - use of high flow rates of mobile phase in, 1848P.
- **Chromatography, gas,** analysis of effluents in, i.r. spectroph., 1259.
  - 1968 annual reviews, 677, 1948.
  - apparatus for, design considerations in, 3157.
  - applications of organosilicon compounds in, 3954.
    - to high-mol. wt non-volatile substances by use of NH_3 or CO_2 at high pressures, 613.
  - back-flushing techniques in, 3166.
  - calculation of peak areas in, from peak heights and retention times, 618.
    - of %ge recoveries of compounds from peak heights, 619.
    - of results in, comparison of methods for, 3176.
    - of retention time of 'air peak' in, 1256.
  - capillary, reduction of plug-length in, by use of on-column micro-trap, 3159.
    - study of, 606.
    - surface treatment of glass tubes for, 3949.
  - carrier gases for, comparison of H and He for hydrocarbons, 2463.
  - collection of fractions in, apparatus for, 1873, 3963.
    - combination with i.r. spectroph. gas cell, 1874.
    - technique for, 1872.
  - columns for, apparatus for reproducible packing of, 3164.
    - assessment of inertness of, use of diacetone alcohol in, 3163.
    - cleaning technique for capillary, 1247.
    - cold-packing method for PTFE supports, 2459.
    - comparison of open-tubular, of different lengths, 3948.
    - for preparative, 1245P.
    - gradient-loaded, 1246.
    - impregnation of, for high-temp. use, 608.
    - macroporous, cross-linked copolymers for GSC, 610.
    - study of ethylstyrene polymers as, with different carrier gases, 3165.
    - upper temp. limits for use of, 609.
  - concn. of volatile substances for, device for, 603.
  - coupled with i.r. spectrophotometry, automated, 2470.
      - technique for, 2469.
    - with mass spectrometry, computer system for, 3227.
      - de-activation of polar chemisorption in a fritted-glass mol. separator in, 1299.
      - system for, with carrier-gas separator, 3965.
      - use of capillary column following packed column in, 3178.
    - with spectrofluorimetry of a flowing-liquid interface, 614.
  - detection in, by neutron activation, 2181.
    - by-pass valve for, 2462.
    - chemical methods for, 600.

- **Chromatography, gas,** detection in—*continued*
    - device for, automated, with internal standard and computer, 617.
    - i.r. spectroph., optimal conditions for, 1877.
    - linear sensitivity-programming in, 3966.
    - measurement of emitted radiation from sensitised flame for, 2467.
    - of gases, carrier gases for, 3170.
    - use of three ionisation detectors simultaneously, 3171.
  - detectors for, behaviour of, in programmed-cryogenic-temp. technique, 3957.
    - coupled flame ionisation - sodium thermionic, all-glass version of, 615.
    - derivative, for poorly resolved components, 2468.
    - electron-capture, analogue converter for recording as rectilinear function of sample concn., 3962.
      - cleaning procedure for, 1255.
    - flame-ionisation, 1254P, 1875P.
      - logarithmic attenuator for, 2465.
      - measurement of effluent carrier-gas flow from, apparatus for, 3172.
      - – thermionic, 3961.
    - flame-photometric, for P or S compounds, 3960.
    - gas-density apparatus for, 712.
    - glow-discharge, 2466.
    - photo-ionisation, design of, 616.
    - *p* - *n* junction, 2464.
    - ^{90}Sr ionisation, with He as carrier gas, 2701.
    - suitable for flame-ionisation, sodium thermionic or electron-capture, 3959.
    - thermal-conductivity, 1252P, 1253P.
      - packed-bed, 3958.
    - thermionic, for organophosphorus compounds, 1876.
  - detmn. of ^{14}C compounds by, continuous counting system for, 3175.
    - of low concn. of contaminants in gases by, 605
  - diagnosis of faults in, 601.
  - flow meter for carrier gas in, 3956.
  - fraction collector for, automatic, slope-sensing device for, 621.
  - glossary of terms in, 1864.
  - identn. of effluents in, by interrupted elution and pyrolysis, 1242.
      - i.r. spectroph., comparison of methods for, 3177.
  - influence of restricted diffusion on rate of solute movement in, 3922.
  - measurement of peak areas in, comparison of methods for, 3964.
      - equations for, 3173.
      - not contained in chart scale, 2471.
    - selection of optimum position for, 2453.
  - preparative, apparatus for, 1870P.
    - high-temp., manifold and trapping assembly for, 3158.
  - programmed-flow, application of retention-index system in, 3968.
  - pyrolysis, apparatus for, 3941.
    - micro-, review, 3161, 3162.
    - optimum temp. in, 3942.
  - sample injection in, device for, 1243P, 1244.
      - for liquid or dry samples, 2457.
    - flash device for, 3160.
    - gas-powered automated system for, 3946.
    - of solids in, automated system for, 3945.
      - device for, 1865.
    - sepn. of volatiles from solids in, device for, 2458.
    - technique for calibration, 3944.
    - trapping technique for open-tubular columns, 3947.

hromatography, gas, sample injection in,—*continued*
    use of pulsed injections in, 602.
  silylating agent for, 1313C.
  stationary phases for, behaviour of, near the freezing-point, 3953.
    cyanoethylated polyglycerol as, 607.
    electron-acceptor, 2460.
    evaluation of, for sepn. of lipid mixtures, 3952.
    polyglycerol and its ethers as, 607.
    Porapak Q as, 206.
    production and testing of, in capillary columns, 1251.
    Schiff bases as, 3955.
    semi-fluidised, 1867P.
    silicone oils, greases and rubbers as, 3954.
    squalane as, variation of retention index with temp., 1258.
    study of evaporation of, 1866.
    use of columns of different selectivities, 1869.
    V 8-hydroxyquinolinate as, for detmn. of H_2O, 2573.
  supports for, deactivation of, comparison of methods for, 611.
    errors in use of lightly loaded, 3943.
    etched glass beads as, 1249.
    glass beads as, 612.
    instability of Carbowax 1500 as, 1250.
    measurement of surface activity of, by thermal decomposition of endrin, 3950.
    modified porous glasses as, 3951.
    sand as, 1248.
  temp.-programmed, calculation of retention time with variants of, 1257.
    correlation isothermal index for, 3969.
    spurious peaks in, 620.
    technique of, 1241, 3168.
    use of graphitised carbon columns in, 3169.
  variation of pressure in, 1871.
    of specific retention vol. with sample size, 3967.
Chromatography, ion-exchange, 1968 annual review, 677.
  columns for, macroporous resins as, properties of, 2472, 2473.
  on paper, of metal ions, study of, 694.
Chromatography, paper, apparatus for centrifugal, 3930.
  automatic device for starting development in, 1850.
  detection in, by polarography, 3153.
    use of liquid scintillators in, 1851.
  evaluation of spots in, by reflection measurement, 3933.
  inorg., study of solvents for, 693.
    use of paper treated with cellulose acetate and thenoyltrifluoroacetone in, 19.
  sample application in, device for, 1849P.
    semi-automatic device for multiple, 3931.
  solvent extraction of compounds isolated in, apparatus for, 1862.
  sources of error in, 595.
  trough for, 3932.
  two-parameter equation relating R_F values in different solvent systems, 596.
Chromatography, thin-layer, adsorbents for, alginic acid as, 2454.
    MgO as, 1853.
    optimum concn. of, 2455.
    polyacrylonitrile, polyacrylamide or poly (*N*-acetylacrylamide) for H_2O-sol. materials, 3936.
    polyamide as, 1854.
    stabilisation of activity of Al_2O_3 for, 3937.
  apparatus for, 1858P.
    for controlled humidity in, 1239P.
Chromatography, thin-layer,—*continued*
  applications in pharmaceutical analysis, 3740, 3741.
  causes of errors in, 1852.
  detection in, by polarography, 3153.
  development in, comparison of solvents for, 3155.
  device for impregnating plates in, 1856.
    for reading R_F values in, 1240.
  evaluation of spots in, by reflection measurements, 3933.
    of zones in, X-ray spectrogr., 3940.
  'hot-line' technique for charring org. compounds in, 1860.
  identn. of separated components in, mass spectrom., 1863.
  influence of solvent vapour in sandwich and unsaturated chambers in, 1859.
  inorg., applications of, 597.
    of liquid ion exchangers in, 1968.
  prepn. of plates for, 1238.
  relation between R_F value and development time in, 3939.
  sample applicator for, 598, 1849P, 1857.
  sample distribution in, 3154.
  sepn. of volatile material from solids for, 3935.
  solvent extraction of compounds isolated in, apparatus for, 1862.
  solvents for, use of homogeneous azeotropic mixtures as, 3938.
  sources of error in, 595.
  spectrophotometer for scanning, 4006.
  two-parameter equation relating R_F values in different solvent systems, 596.
  use of adsorbent-filled papers in, 1855.
Chromite ores, detmn. of Fe^{II} in, amperom., 2737.
Chromium, detmn., atomic-absorption spectroph., interferences in, 702.
    by isotope dilution - mass spectrom., 1407.
    in biol. materials, coulom., 2877.
    in biol. tissues and blood, spectroph., 3617.
    in carboxylic acids, spectrogr., 292.
    in cast iron, atomic-absorption spectroph., 861.
      photom., 1422.
    in Cr - Ni thin-layers, X-ray spectrogr., 2087.
    in cured hide, atomic-absorption spectroph., 3604.
    in leather, photom., 346.
    in natural water, by neutron activation, 1824.
    in plants, by HCl extraction - atomic-absorption spectroph., 2266.
    in presence of Fe, Ni and V, by ion-exchange, 3310.
      of other metals, complexom., 2086.
    in preserves, spectroph., 1723.
    in skin, by neutron activation, 1C.
    in steel, atomic-absorption spectroph., 861, 2744.
      X-ray spectrogr., 2741.
    in wine, atomic-absorption spectroph., 3073.
    of Cr^{III}, by fluorescence quenching, 833.
    of Cr^{VI}, by catalytic method, automated, 2710.
      by kinetic method, 2084.
      by solvent extraction - spectroph., 834.
      in presence of V^{V}, volum., in H_3PO_4 medium, 2565.
    of impurities in, by neutron activation and ion exchange, 2711.
    of protein-bound, in blood, by gel filtration, contamination problems in, 2854.
      in blood serum, by gel filtration - neutron activation, 2855.
  sepn. from Al, Be, Cu or Ag, by GLC of acetylacetonates and detmn., mass spectrom., 703.

Chromium, separation—*continued*
  of Cr^{III} from Cr^{VI}, by co-pptn. of Cr^{III} with $Ti(OH)_4$, 2564.
    from Fe^{III}, electroph., 2548.
    from Mn^{II}, by ion exchange, influence of conditions on, 1408.
  sorption of Cr^{3+} on a silica column, study of, 39.
Chromium, reagents for, 1,5-diphenylcarbazide, 834, 1723, 3617.
  triazinylstilbexon, 833.
Chromium alloys, detmn. of N in Cr - Ni foils, spectrogr., 3286.
  of W in Cr - Co - Ni, fluorim., 1409.
Chromium complexes, Cr^{III}-, sepn. and detmn., by TLC - reflectance spectroph., 3425.
  thiocyanate, sepn., by ion-exchange, 837.
  tris(trifluoroacetylacetonato)chromium^{III}, retention of, in GLC, 2085.
Chromium oxides, detmn., in mixtures, volum., 835.
—, Cr_2O_3, dissolution of, in $KBrO_3$ and $HBrO_3$, 836.
Chromone, deriv. of, detmn., in pharm. prep.,polarogr., 1714.
Chromotropic acid, 3,6-bis(2-sulphophenylazo)-, detmn. of azo-groups in, coulom., 227.
Chrysene, sepn. from other polycyclic hydrocarbons, by TLC, 291.
Cider, analysis, by temp.-programmed GLC, 3813.
Cigarettes. (See also *Tobacco.*)
  detmn. of menthol in, by GLC or colorim., 1601.
Cinchona, extraction of alkaloids of, use of aq., surfactants in, 1109.
Cinchonine, detmn., non-aq. volum., indicators for, 2541.
Cinchoninic acid, 2-phenyl-, deriv. of, detmn. of N in, 296.
Cinchophen. (See *Cinchoninic acid, 2-phenyl-.*)
Cinnamic acid, deriv. of, detmn., polarogr., 281.
    identn., in plant tissues, u.v. spectroph., 2298.
  sepn. from phenylalkanoic acids, by TLC of the anilides of, 3655.
Cinnamon, sepn. of extraneous matter from, for microscopy, 1746.
Citric acid, detmn., in fats and fatty oils, potentiom., 3083.
Citronellol, sepn. from geraniol, by TLC, 955.
Citrus fruits, detmn. of 2-aminobutane in, colorim., 527.
    of ascorbic acid in, paper chrom., 3831.
Citrus juices, detmn. of peel oil in, volum., 3041.
Clams, detmn. of shell in, 1728.
Clays, detmn. of specific surfaces of, by adsorption of butane, 1946.
  identn., by measurement of potential changes during heating, 204.
  X-ray diffraction of, use of diffracted-beam monochromator in, 2762.
Clinical analysis, 1968 annual review, 1948.
  report of conference on, 1313.
Clioquinol, detmn., gravim., by reaction with 1-fluoro-2,4-dinitrobenzene, 2381.
Coal, analysis, by pyrolysis - GLC, 2224.
  detmn. of Al, Cu and Fe in, by neutron activation, 1430.
    of As in, photom., 2769.
    of C and O in, by gamma-irradiation, 2223.
    of Cl in, by O-flask combustion, 2142.
    of Ge in, by GLC, 881.
    of P and S in, 882.
    of S in, by O-flask method, 883.
      X-ray spectrogr., 3482.
Coal ash, analysis, radiom., 2767, 2768.
    X-ray spectrogr., 2141.
Coal tar, analysis, review, 310.
Cobalamin, cyano-, assay, in pharm. prep., microbiol., automated apparatus for, 2988, 3751.
  detmn., in pharm. tablets, atomic-absorption spectroph., 2987.
  identn. of deriv of, by TLC, 2343.
  sepn., from biol. materials, molecular-sieve-coated adsorbent for, 3605P.
Cobalt, detmn., atomic-absorption spectroph., 702.
  by catalytic method, 2748.
    with detmn. of end-point by DTA, 2749.
  by solvent extraction - spectroph., 1332, 3461. 3463.
  gravim., 1326, 2746.
  in beer, in presence of Fe and Ni, spectroph., 3070.
  in blood, ion-exchange chrom. - spectroph., 2279.
    and biol. tissues, semi-quant., by circular TLC, 2881.
  in cereals, by TLC - spectroph., 1779.
  in liver, atomic-absorption spectroph., 1549.
    photom., elimination of interference by Cu in, 1548.
  in marine deposits, by neutron activation, 3296.
  in minerals, ores or rocks, by neutron activation with coincidence counting, 2671.
    spectrogr., 2747.
  in mixtures of alkaline-earth oxides and SiO_2, spectrogr., 3290.
  in plants, oscillopolarogr., 999.
  in presence of Ni, polarogr., 188.
      spectroph., 868.
    of other metals, as pyridine - SCN complex, by TLC, 26.
  in steel, amperom., 866.
    photom., 189.
    spectroph., 2118.
  in wine, atomic-absorption spectroph., 3073.
  kinetic method for, 2120.
  mercurim., as pyridine - SCN^- complex, 23.
  of 10^{-6} to 10^{-15} g amounts, by isotope dilution and rate of evaporation from solid surfaces, 3283.
  of C in, by combustion, without flux, 1387.
  of Co^{II}, by solvent extraction - spectroph., 2567.
  of Co^{III}, gravim., 186.
    in silicone resins, photom., 2253.
    volum., 199.
  of metallic, in minerals, ores or rocks, atomic-absorption spectroph., 859.
  of Ni in, by solvent extraction - spectroph., 3464.
  photom., 187.
  spectroph., 1964, 2058, 3462.
  u.v. spectroph., 1969.
identn. of Co^{II} on paper chromatograms, reagent for, 3289.
sepn. from Cd, Ni and Zn and detmn., 704.
  from Cu and Ni, by TLC, as 1-(2-pyridylazo)-2-naphthol complex, 2555.
solvent extraction of, with thiothenoyltrifluoroacetone, 1973.
suppression of polarogr. maximum of, by aliphatic alcohols, 3302.
Cobalt, reagents for, 4-anilino-1-phenyl-1,2,4-triazolium chloride, 3463.
  2-(2-benzothiazolylazo)-1-naphthol, 1964.
  2-(carbamoylthio)acetanilide, 186.
  di-2-pyridyl ketoxime, 3462.
  ethyl di(l-sodiotetrazol-5-ylazo)acetate, 189.
  Fast grey RA, 2058.
  Hyamine 1622, 3461.
  6-hydroxy-5-nitrosoquinoline, 2746.

Cobalt, reagents for,—*continued*
  3-mercaptoacrylic acid, 2124.
  β-mercaptocinnamic acid, 2124.
  3-mercaptocrotonic acid, 2124.
  β-mercaptohydrocinnamic acid, 2124.
  4-methoxybenzothiohydroxamic acid, 2567.
  2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]heptylresorcinol, 187.
  nitroso-R salt, 1548.
  1-(2-pyridylazo)-2-naphthol, 3070.
  quinoxaline-2-carboxylic acid, 1326.
  quinoxaline-2,3-dithiol, 868.
  tetramethylenedithiocarbamic acid, NH_4 salt, 1969.
Cobalt alloys, detmn. of W in Co - Cr - Ni, fluorim., 1409.
Cobalt compounds, chloro-complexes of Co^{II}, adsorption of, by Dowex A-1, 2559.
  dichlorobis(nicotinamido), detmn., polarogr., 1712.
  inorg., TLC of, 869.
  of Co^{II} with 1-(2-pyridylazo)-2-naphthol, TLC of, 25.
  of type $Co(\alpha\text{-dioxime})_2(amine)_2Br$, paper and thin-layer chrom. study of, 917.
  trisglycinatocobalt^{III}, sepn. of *cis* - *trans* isomers, of, by TLC, 1479.
Cocoa, detmn. of shell in, microscopic, 1758.
  identn. of sugars in, by TLC, solvent systems and spray reagents for, 1757.
    of volatile compounds of, by GLC - i.r. spectroph. and mass spectrom., 530.
Coconut oil, detmn. of unsap. matter in, 3599.
Codeine, detmn., in mixtures with morphine and paracetamol, u.v. spectroph., 2976.
  identn., in suppositories, by TLC and detmn., spectroph., 2974.
  sepn. from diamorphine, column chrom., 1848P.
Codeine phosphate, detmn., in mixtures with other drugs, photom., 496.
      spectroph., 1134.
      volum., 485.
    in syrups, in presence of methapyrilene fumarate and ephedrine hydrochloride, by GLC, 1716.
Cod-liver oil, detmn. of As in phospholipids of, by neutron activation, 1547.
Coenzyme A, detmn., 1313C.
Coenzyme Q_{10}. (See *Ubiquinone.*)
Coffee, assay of *o*-diphenol oxidase in, spectroph., 3812.
  detmn. of aflatoxin B_1 in green, by TLC, 1755, 1756.
    of aflatoxin G_1 in green., by TLC, 1756.
    of caffeine in, spectroph., 1754.
      in decaffeinated, column chrom. - non-aq. volum., 529.
    of loss-on-drying of, comparison of air- and vacuum-ovens for, 1753.
    of scopoletin in, column - thin-layer chrom., 3065.
  identn. of volatile constituents of roasted, by GLC - i.r. spectroph. and mass spectrom., 528.
Coins, analysis, by neutron activation, 741.
Collagen, detmn., in biol. tissues, spectroph., 3713.
  sepn. of sub-units of, chrom., comparison of methods for, 1621.
Colostrum, isolation of sialyl lactosides from, by gel filtration, and identn. by TLC, 2293.
Common salt, detmn. of $K_4Fe(CN)_6$ in, photom., 3810.
Complexans, detmn., in detergents, 3577.
    of micro amounts, by metal-ion catalysis, 1953.
Compound S, detmn., in blood plasma, column - thin-layer chrom. - fluorim., 3679.
Computers, data-acquisition and control system for, 3921.
  electronic data-processing for, 3894.
  wide-range digitiser for d.c. analogue signals, 5.
Confectionery, detmn. of benzoate preservatives in, by TLC - spectroph., 3062.
    of ethanol in, by GLC, 3796.
      in single sweets by distillation - spectroph., 3015.
Conferences and symposia, reports of, Automated Amino-acid Analysis. 1968. London. 1309.
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  Metal-catalysed Lipid Oxidation. 1967.. Göteborg, Sweden. 2535.
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Copolymers. (See also *Polymers.*)
  acrylonitrile - methacrylic acid - methyl methacrylate, detmn. of -COOH groups in, potentiom., 330.
  acrylonitrile - styrene, analysis, by NMR, 329.
  butadiene - styrene, detmn. of bound styrene in, i.r. spectroph., 2242.
  detmn. of carboxy-groups in, i.r. spectroph., 2843.
  ethylene - styrene, analysis, spectroph., 3588.
  ethylene oxide - propylene oxide, analysis, i.r. spectroph., 2241.
  poly(methacrylic acid) - methyl methacrylate, detmn. of methacrylic acid in, oscillopolarogr., 2840.
  poly(vinyl acetate) - acrylate, analysis, i.r. spectroph., 2841.
  stearyl methacrylate - cetyl methacrylate, detmn., in paraffin wax, i.r. spectroph., 2828.
  vinyl acetate - maleic acid diester, i.r. spectra of, 965.
  vinylpyridine, detmn. of divinylbenzene cross-linkages in, i.r. spectroph., 3973.
Copper, analysis of inclusions in, spectrogr., 1993.
  detection, spot test for, 1363.
  detmn., by catalytic method, automated, 1986.
    by electrodeposition - iodim., 28.
    by solvent extraction - photom., 51, 1991, 2554.
      - spectroph., 1332, 2751.
    by TLC - reflectance spectroph., 27.
    cathode-ray polarogr., 33.
    complexom., 1951.
      in non-aq. media, 707.
      indicator for, 726.
    coulom., in acetonitrile medium, 1965.
    gravim., 50, 727, 1326, 1349, 1917, 2585.
    in activated carbon, anodic-stripping voltamm., 2663.
    in alkaline soln., by catalytic method, 1988.
    in antimony^{III} oxide, anodic-stripping voltamm., 733.
    in biol. materials, by neutron activation, 1534.

Copper, determination—*continued*
in biol. tissues, by neutron activation, 3610.
and blood, semi-quant., by circular TLC, 2881.
in blood plasma, a.c. polarogr., 2863.
in blood serum, atomic-absorption spectroph., 1313C, 2858.
colorim., 3609.
in presence of Zn, atomic-absorption spectroph., 3611.
in butter, polarogr., 2535C.
in Ca salts, anodic-stripping voltamm., 59.
in cast iron, atomic-absorption spectroph., 861.
in cereals, by TLC - spectroph., 1779.
in coal, by neutron activation, 1430.
in de-ionised H_2O, anodic-stripping voltamm., 733.
in electroplating soln., column chrom., 2586.
in fats and fatty oils, atomic-absorption spectroph., 2535C.
spectroph., 1778.
in minerals, ores or rocks, by neutron activation, 2589.
by photon activation, 2590.
in mixtures of alkaline-earth oxides and SiO_2, spectrogr., 3290.
in natural water, by an exchange reaction on paper, 1822.
in other metals, column chrom., 2586.
in packaging materials, polarogr., 2535C.
in phosphorite, anodic-stripping voltamm., 1399.
in plants, by HCl extraction - atomic-absorption spectroph., 2266.
by neutron activation, 351.
in presence of Cd and Zn, complexom., 698.
of Co, Ni and Zn, amperom., 2588.
of Ni, spectroph., 1951.
of other metals, by TLC, as pyridine - SCN^- complex, 26.
of Zn, complexom., 728.
in reagents, photom., 903.
in silicones, photom., 2253.
in steel, atomic-absorption spectroph., 861.
in urine, atomic-absorption spectroph., 2858.
in presence of Zn, atomic-absorption spectroph., 1539.
in wine, atomic-absorption spectroph., 3073.
in zeolites, volum., 1337.
in zinc, photom., 62.
B.S.I. method for, 61.
mercurim., as pyridine - SCN^- complex, 23.
of Cu^I, polarogr., in presence of unithiol, 732.
potentiom., 2587.
of Au in, atomic-absorption spectroph., 2599.
of impurities in, spectrogr., 2592.
of N in foils, spectrogr., 3286.
of P and S in, by neutron activation, 2702.
of protein-bound, in blood, by gel filtration, contamination problems in, 2854.
of Se in, by co-pptn. with $PbSO_4$ and spectroph., 145.
photom., 52.
spectroph., 53, 729, 730, 731, 1964, 1989, 1990, 3326.
electro-reduction of Cu^{II} in molten $NaNO_3$ - KNO_3, 22.
identn., on paper chromatograms, reagent for, 3289.
ion-exchange of Cu^I with $^{64}Cu^{II}$, 1340.
sepn. from Al, Be, Cr or Ag, by GLC of acetylacetonates and detmn., mass spectrom., 703.
from Co and Ni, by TLC, as 1-(2-pyridylazo)-2-naphthol complex, 2555.

Copper, separation—*continued*
from other metals, by solvent extraction wit
salicylaldoxime, 700.
of Cu^I from Cu^{II}, paper chrom., 1985.
solvent extraction, of Cu^I from HCl medium, b
tetrahexylammonium chloride in dichloro
ethane, 2556.
of Cu^{II} from HCl medium, by tetrahexyl
ammonium chloride in dichloroethane, 2591
with thiothenoyltrifluoroacetone, 1973.
Copper, reagents for, 5-amino-2-[3-(1-methyl-2
piperidyl)-2-pyridylazo]-phenol, 52.
2′-aminotoluene-*p*-sulphonanilide, 3326.
azo-azoxy BN, 903.
4-(benzenesulphonyl)benzohydrazide, 727.
2-(2-benzothiazolylazo)-1-naphthol, 1964.
2,2′-bicinchoninic acid, 3609.
2,2′-biquinolyl, 730.
NN′-bis[3-(2-carboxyethyl)-2-hydroxy-5-methyl-
benzyl]ethylenediamine, 1951.
dimethyl(selenocarbamoyl) dimethyldiselenocarb
amate, 2554.
OO-diphenyl phosphorodithioate, 1991.
ethyl 1-hydroxy-2-naphthyl ketoxime, 1917.
4-(2-ethyl-4,5-dimethoxyphenyl)butylamine, 50.
3,3′-ethylene-4,4′-diphenyl-2,2′-biquinolyl, 731.
N-1-naphthyloxamic acid, 2585.
neocuprizone, 53.
oxalic acid bis(ethylidenehydrazide), 61.
4-phenyl-2-(2-pyridylmethyleneamino)phenol, 1989.
N-phenyl(thiobenzohydroxamic acid), 1349.
picramine R, 1990.
quinoline-2-aldehyde 2-quinolylhydrazone, 51.
quinoxaline-2-carboxylic acid, 1326.
salicylaldoxime, 2751.
tetraethylthiuram disulphide, 62.
2-(thiobenzoyl)acetophenone, 1332.
Copper alloys, analysis, coulom. - substoicheiom
automated, 2557.
of Cu - Mn - Mo, photom., 699.
of Cu - Ni, spectrogr., influence of counter
electrode on, 1960.
of Cu - Zn, spectrogr., influence of suppor
electrode on, 1959.
detmn. of Al in, photom., 2621.
of Fe in Cu - Al, atomic-absorption spectroph
3327.
of Pb in, by concn. on MnO_2 and polarogr
1992.
of Sn in, by concn. on MnO_2 and polarogr., 1992
Copper compounds, chloro-complexes, adsorptio
of, by Dowex A-1, 2559.
complex with 1-(2-pyridylazo)-2-naphthol, TL
of, 25.
Copper naphthenate, detmn. in wood, X-ray spec
trogr., 2233.
of Cu in, photom., 322.
Copper ores, detmn. of Ge, In, Mn, Sm and Ag in
by neutron activation, 3328.
of oxidised Cu compounds in, by extractio
with unithiol soln., 1994.
of Re in, by neutron activation, 152.
Copper refining, detmn. of Se and Te in slime
formed in, gravim., 735.
phase analysis of Se compounds in slimes in, 734
Copper wire, detmn. of H_2O vapour in tough pitc
bar, by Al reduction, 2593.
Coproporphyrin, sepn. from related porphyrins, i
urine, by TLC on talc, 1075.
Coriander oil, detmn. of alcohols in, comparison c
methods for, 3786.
Corn. (See *Maize.*)

- **oronene,** detmn., by electroluminescence, 2817.
  - sepn. from benzo[*a*]pyrene and phenanthrene, column chrom., 1845.
- **orticosteroids,** detmn., by TLC, 3680.
  - in adrenal extracts, column - thin-layer chrom. - colorim., 406.
  - in blood plasma, fluorim., semi-automated, 1041.
  - in urine, by GLC, 2310.
    - by TLC, 2922.
    - enzymic - paper chrom. - colorim., with Zimmermann reagent, 2308.
  - TLC of intermediates formed during synthesis of, on AgNO$_3$-coated plates, 3777.
- **-, 17-hydroxy-,** detmn., in urine, by GLC, 2310.
    - by TLC, 2919.
    - spectroph., interference by formaldehyde-forming drugs in, 1594.
- **-, 17-hydroxy-11-oxo-,** detmn., in urine, comparison of methods for, 2886.
- **orticosterone,** detmn., in blood plasma, column - thin-layer chrom. - fluorim., 3679.
- **ortisol.** (See *Hydrocortisone.*)
- **ortisone,** detmn., in blood plasma, column - thin-layer chrom. - fluorim., 3679.
- **osmetics,** analysis, bibliography of, 1174, 3817.
  - hand lotions, detmn. of Si in dimethylpolysiloxane in, atomic-absorption spectroph., 2230.
  - identn. of emulsifying agents in, by TLC, 317.
- **ottonseed,** detmn. of gossypol in, spectroph., 1790.
  - sepn. of aflatoxins of, 3654.
- **oumaphos,** detmn., in animal dips, automated coulom., 1804.
- **oumarin, 4-hydroxy-,** deriv. of, detmn., in pharm. prep., polarogr., 1714.
- **–, 7-hydroxy-,** deriv. of, fluorescence of, in relation to structure, 1105.
- **ounter-current distribution,** centrifuge for serum proteins, 589.
- **ounting.** (See *Scintillation counting.*)
- **rabmeat,** detection of adulteration with cod-meat, 1729.
  - detmn. of shell in, 1728.
- **ranberries,** detmn. of anthocyanins in, by solvent extraction - spectroph., 3804.
- **ranberry juice,** detmn. of anthocyanins in, spectroph., 3804.
- **ream,** detmn. of proteins in, by dye-binding method, 3034.
- **reatine,** detmn., in blood serum and c.s.f., enzymic - spectroph., 1046.
  - in erythrocytes, spectroph., 2317.
- **reatinine,** detmn., in blood plasma, ion-exchange-chrom. - spectroph., 1048.
  - in blood serum, comparison of methods for, 412.
    - and urine, simult. with urea, automated, 2318.
  - in urine, in presence of bilirubin, automated, 2928.
    - ion-exchange chrom. - spectroph., 1047, 1048.
- **n-Cresol, 4,4′-thiobis(6-t-butyl)-,** detmn., paper chrom., 2258.
- **-Cresol, 2,6-di-t-butyl,** detmn., in breakfast cereals, by GLC, 3063.
- **resols,** chloro-deriv. of, sepn., by GLC, 278.
- **ristobalite,** detmn., by DTA, 2139.
- **rops.** (See *Plants.*)
- **rotonic acid, 3-amino-,** detmn., in foods and edible oils, by TLC - polarogr., 3830.
- **ryogenine.** (See *Semicarbazide, 1-phenyl-.*)
- **ryolite,** detmn. of Al, F, Na and SO$_4^{2-}$ in, permissible deviations in, 1980.
- **ucurbitin,** detmn., in cucurbita seeds, ion-exchange paper chrom. - densitom., 464.
- **Cumene hydroperoxide,** reaction with aromatic isocyanates, 2201.
- **Cyanate,** detmn., in presence of CN$^-$ and CO$_3^{2-}$, 791.
- **Cyanide.** (For organic cyanides see *Nitriles.*)
  - detmn., catalimetric, 2046.
    - in blood, spectroph., 2893.
    - in natural water, colorim., 1823.
    - in presence of OCN$^-$ and CO$_3^{2-}$, 791.
    - potentiom., 3435.
    - spectroph., 2047, 3378.
    - volum., 2666.
- **Cyanocobalamin.** (See *Cobalamin, cyano-.*)
- **2-Cyanoethylsilylidyne groups,** i.r. absorption of, 2154.
- **3-Cyanopropylsilylidyne groups,** i.r. absorption of, 2154.
- **Cyanuric acid,** detection, on paper chromatograms, fluorescence spectroph., 3693.
  - detmn., potentiom., in dimethyl sulphoxide medium, 2251.
- **Cyclamic acid,** detmn., in aq. alcoholic soln., in presence of cyclohexylamine, by GLC, 2393.
  - Na salt, detmn., in presence of saccharin, i.r. spectroph., 3051.
- **Cyclobarbitone,** detection, by TLC, colour reagent for, 2369.
  - identn., by TLC, solvent systems for, 1679.
    - in urine, by TLC, 3623.
    - i.r. spectroph., 1680.
- **Cyclobutane, octafluoro-,** detmn. of octafluorobut-2-ene in, by GLC, 231.
- **Cyclohexane,** identn. of impurities in, by GLC, 2187.
  - oxidation products of, detmn. of monocarboxylic acids in, paper chrom., 280.
- **—, hexachloro-,** detmn., in animal dips, coulom., automated, 1804.
    - in natural water, by solvent extraction - TLC, 1206.
      - in presence of DDT, volum., after alkaline hydrolysis, 1205.
        - and methoxychlor, by solvent extraction - TLC, 3128.
    - of beta isomer in crude product, 3115.
    - of gamma isomer in crude product, by TLC - potentiom., 1802.
    - on seeds, by solvent extraction - GLC, 1799.
- **Cyclohexane-1,2-dione dioxime,** detmn., complexom., 928.
- **Cyclohexanol,** detmn. of aliphatic acids in products of oxidation of, by GLC, 2796.
  - sepn. of methyl-, dimethyl- and cyclohexyl-deriv. from one another and from ketones, by GLC, 3534.
- **—, t-butyl-,** analysis of mixtures of, with octenes, octanols, octahydronaphthalenes, decahydronaphthols and t-butylcyclohexenes, 230.
- **Cyclohexanone,** detmn., in air, in presence of acetone, spectroph., 3864.
    - in presence of ketals, 247.
    - of phenol in, photom., 2194.
- **Cyclohexene, t-butyl-,** analysis of mixtures of, with octenes, octahydronaphthalanes, octanols, decahydronaphthols and t-butylcyclohexanols, by GLC, 230.
- **Cyclohex2-en-1-ol,** TLC of hydrogenation products of, 276.
- **Cyclohexylalkanoic acids, 4-amino-,** detmn. of *cis*- and *trans*-isomers of, by GLC, 2236.
- **Cyclohexylamine,** detmn., in aq. alcoholic soln., in presence of cyclamic acid, by GLC, 2393.
  - in industrial water, B.S.I. method for, 3884.
- **Cyclopentadiene, hexachloro-,** detmn., in presence of octachlorocyclopentene, polarogr., 2157.
  - in water or soil, pulse polarogr., 550.

- **Cyclopentane-1,2-dione dioxime,** detmn., complexom., 928.
- **Cyclopenta[*b*]pyrrole, 1,4,5,6-tetrahydro-,** detmn., non-aq. potentiom., 3557.
- **Cyclopentene, octachloro-,** detmn., in presence of hexachlorocyclopentadiene, polarogr., 2157.
    - in water and soil, pulse polarogr., 550.
- **Cyclophosphamide,** sepn. from other biol. alkylating agents, by TLC, 493.
- **Cycloserine,** sepn. from other tuberculostatic antibiotics and identn., by TLC, 3750.
- **Cyclosiloxanes, dimethyl-.** detmn. in hydrolysis products of dichlorodimethylsilane, by GLC, 3593.
- **Cyclotetrasiloxane, octamethyl-,** detmn. of impurities in, by GLC, 2250.
- **Cysteine,** detmn., in biol. fluids, in presence of cystine, colorim., 1059.
- **Cystine,** detmn., in biol. fluids, in presence of cysteine, colorim., 1059.
- **Cytidine,** detmn., in pharm. prep., in presence of adenosine, guanosine, inosine and uridine, paper chrom. or electroph. - spectroph., 1147.
- **—, deoxy-,** detmn., in urine, after X-irradiation, ion-exchange - paper chrom., 1631.
        - ion-exchange chrom. - colorim., 1632.
        - ion-exchange - paper chrom. - spectroph., 2957.
    - of 5′-phosphate of, in DNA hydrolysate, in presence of deoxythymidine 5′-phosphate, column chrom. - u.v. spectroph., 2955.
- **Cytosine,** micro-sublimate of, properties, of, 434.

D

- **2,4-D,** detmn., in natural water, by solvent extraction - GLC, 3875.
    - in presence of related phenoxyacetic acids, by GLC, 1793.
- **DDE,** detmn., in lucerne hay, by GLC, comparison of extraction methods for, 3851.
    - sepn. from DDT in fish, by TLC, and detmn. of the ratio of the two compounds, 372.
- **DDT,** detection, on TLC plates, fuchsine dyes for, 546.
    - detmn. in animal dips, automated coulom., 1804.
        - in crop residues, in presence of Aramite, camphechlor and endrin, by TLC - GLC, 1805.
        - in lucerne hay, by GLC, comparison of extraction methods for, 3851.
        - in natural water, by solvent extraction - TLC, 1206.
            - in presence of BHC, volum., after alkaline hydrolysis, 1205.
                - and methoxychlor, by solvent extraction - TLC, 3128.
    - sepn. of ^{14}C-labelled, from DDE in fish, by TLC, 372.
    - solvent extraction of, from fruits and hay, 3057.
- **DFDT** (See *Ethane,* 1,1,1-*trichloro*-2,2-*bis*(4-*fluorophenyl*)-).
- **DTA.** (See *Thermal analysis, differential.*).
- **Data-processing.** (See under *Analytical chemistry; Computers.*)
- **Dates,** detmn. of ethylene oxide and its toxic residues in, by GLC, 2411.
- **Dehydration.** (See *Drying.*)
- **Dehydroascorbic acid,** sepn. from ascorbic acid, by GLC after silylation, 1094.
    - by TLC on polyamide, 441.
- **Dehydroepiandrosterone.** (See *Androst*-5-*en*-17-*one*, 3*β*-*hydroxy*-.)
- **Dehydroluciferin,** sepn., from luciferin and ATP, i firefly extracts, by gel filtration, 3839.
- **De-icers.** (See *Antifreeze substances.*)
- **Demethylchlortetracycline,** detmn. of 6-demethy tetracycline in, spectroph., 2365.
- **Demeton,** detmn. of thione to thiolisomer ratio i the technical product, by NMR, 553.
- **Demissine,** detmn., in leaf of wild potato, polarogr 1114.
- **Dentures.** (See *Teeth.*)
- **Depersolon,** identn. and purity testing, in pharm products, by TLC and i.r. and u.v. spectra, 238
- **Depreton.** (See *Ketone,* methyl 4-pyridyl thiocarb azone.)
- **Derivatography.** (See *Thermal analysis, differentia*
- **Dermatophytes,** identn. of pigments of, by TL 3719.
- **Desipramine,** detmn., in autopsy materials, spe troph., 2284.
    - in pharm. prep., colorim., comparison methods for, 1698.
- **Detergents.** (See also *Soap; Surfactants.*)
    - analysis, bibliography of, 1174, 3817.
        - of powders, 315.
    - detmn. of anionic, volum., 1499.
        - of complexans in, 3577.
        - of ethylenediamine-*NNN′N′*-tetra-[2-(2-pro oxyethoxy)ethanol] in, potentiom., 311.
        - of SO_4^{2-} in alkylnaphthalenesulphonate potentiom., 3574.
        - of polyphosphates in, by TLC, 3576.
    - measurement of bio-degradation of alkylphen polyethoxylates, by TLC, 3572.
- **Deuterium,** detmn., in titanium, spectrogr., wi hollow-cathode discharge, 805.
- **Deuterium oxide,** detmn., in blood plasma, b freezing-point elevation, 1536.
    - in water, polarogr., 717.
- **Dexamethasone,** detmn., in ointments, by isoto dilution, 1706.
    - sepn. from degradation products in pharm. pre by TLC, 2387
        - from related steroids, in pharm. prep., by TL solvent systems for, 1142.
- **Dextran,** detmn., in blood, spectroph., 2890.
- **Dextropropoxyphene,** detmn., in blood plasma, solvent extraction - GLC, 2281.
    - in pharm. tablets containing amidopyrin caffeine and allobarbitone, by TLC - spe troph., 2993.
        - simult., with paramethasone, spectrop semi-automated, 2375.
    - spectroph., automated, 1686.
- **Dialysis,** apparatus for multiple-sample thin-fil 1226.
    - for small vol., 1837.
- **Diamorphine,** sepn. from codeine, column chro 1848P.
- **Diazepam,** detection of impurities in, by TLC, 23
    - detmn., in pharm. prep., fluorim., 3761.
    - identn., by TLC, 486.
- **Diazinon,** detmn., by GLC, after sweep co-distil tion clean-up, 1808.
        - comparison of dual-detection systems f 1806.
    - by wet oxidation and spectroph., automat 1807.
- **Dibenz[*a*,c]anthracene,** sepn. from other polycyc hydrocarbons, by TLC, 291.
- **Dibenz[*ah*]anthracene,** detmn., fluorim., 3554.
- **5*H*-Dibenz[*bf*]azepine, 10,11-dihydro-,** detmn., paper chromatograms, spectroph, 1553.
- **Dibenzoyl peroxide,** detmn., in fats and fatty o oscillopolarogr., 1775.

benzylamine, detmn., in *m*- or *p*-xylene-αα′-diamine, spectroph., 283.
carboxylic acids, detmn., potentiom., in t-butyl alcohol and dimethylformamide media, 2252.
chlorvos, detmn., in milk, in presence of trichlorphon, by TLC, with enzymic detection, 3811.
cofol, detmn., in fruits and vegetables, spectroph., 3058.
cyandiamide, sepn. from related classes of compounds, paper chrom., 3782.
eldrin, detmn., in animal dips, automated coulom., 1804.
isolation of metabolites of, from urine, column - gas chrom., 2895.
enoestrol, detmn., in tablets, in presence of methyltestosterone, by GLC as bis(trimethylsilyl) deriv., 1707.
iethyl carbonate, detmn., in presence of diethyl oxalate and ethanol, by GLC - i.r. spectroph., 2789.
in wine, by GLC, 1171.
iethylene glycol, detmn. of saponification values of polyesters with dicarboxylic acids, 2845.
igitoxin, detmn., in blood plasma, enzymic, 2884.
i.r. spectra of polymorphs of, 2359.
igoxin, i.r. spectra of polymorphs of, 2359.
ihydrallazine, detmn., in dragées, complexom., 3004.
iketones, detmn., in beer, by GLC, 1764.
imefox, detection, by TLC, 1811.
imethoate, detmn., in citrus fruits, simult. with phenthoate, colorim., 525.
in technical products, by TLC - spectroph. or by GLC, 3854.
imethyl disulphide, detmn., in air, in presence of S-containing gases, by membrane filtration and microcoulom. detection, 1196.
imethyl sulphide, detmn., in air, in presence of S-containing gases, by membrane filtration and microcoulom. detection, 1196.
identn., in aroma of asparagus, by TLC, 3809.
imethyl sulphoxide. (See under *Sulphoxides.*)
imethylmyleran, sepn. from other biol. alkylating agents, by TLC, 493.
imexan, detmn., in crops, spectroph., 545.
inocap, sepn. of alkyldinitrophenols in, by GLC, 554.
iodone, detmn., in injections, u.v. spectroph., 3783.
volum., errors in, 1711.
iols. (See *Glycols.*)
ipeptide phenylhydrazides, detmn., by TLC, as benzyloxycarbonyl deriv., 1612.
ipyrone, identn., in presence of related drugs, by TLC - u.v. spectroph., 1692.
isaccharides. (See under *Sugars.*)
ispasmol, detmn., argentim., 2380.
istillation, 1968 annual review of methods of, 677.
apparatus for, 1835, 1836.
flask for, 3912P.
fractional, ceramic columns for, 2450.
vacuum, at controlled temp. and in inert atmosphere, apparatus for, 588.
isuccinoyl peroxide, detmn., in fats and fatty oils, oscillopolarogr., 1775.
isulphides, organic, (See *Dimethyl disulphide; Tetra-alkylthiuram disulphide.*)
ithizone, oo′-dichloro-, applications of, as reagent, 681.
ixanthogen, detmn., in aq. soln. of metal xanthates, spectroph., 2180.
odecyl sodium sulphate, detmn., in egg white, spectroph., 1731.
odecylamine, detmn., photom., 3525.
Dopamine, detmn., by GLC - mass spectrom., as trimethylsilyl deriv., 3685.
in biol. tissues and urine, in presence of adrenaline and noradrenaline, by GLC as trifluoroacetates, 2927.
in brain, in presence of noradranaline and 5-hydroxytryptamine, fluorim., 1589.
sepn., from adrenaline and noradrenaline, by GLC as trifluoracetates, 2926.
Doriden. (See *Glutethimide.*)
Dough, detmn. of bound water in, by NMR, 3794.
Drugs, identn., by ref. ind., dispersion staining in, 2351.
Drying. (See also *Freeze-drying.*)
by molecular sieves, prevention of dust contamination in, apparatus for, 1841.
Dryopteris, sepn. of polyhydric phenols from, by TLC, 3757.
Dust, atmospheric, containing Ge compounds, phase analysis of, 710.
detmn. of aldehydes in, chrom., azulene procedure for, 2436.
of α- and β-activity of particles of, autoradiogr., 3121.
of α-glycolic compounds in, fluorim., 1819.
of naphtho[1,2,3,4-*def*]chrysene in, by TLC - spectrofluorim., 1203.
of PO_4^{3-} in, ring colorim., 1816.
of Po in, by electrochemical displacement and alpha-counting, 1197.
Dyes (*general references*). (See also *Food dyes; Hair dyes.*)
azo-, as reagents, purity control of, 2153.
detmn. of OH-groups in, by acetylation - paper chrom., 2834.
basic, detmn., amperom., 2833.
biological stains, sepn. from impurities, by GLC, 347.
identn. of 2,3-dichloroquinoxaline deriv., paper or thin-layer chrom., 319.
of vinyl or 2-hydroxyethyl sulphone forms of, paper or thin-layer chrom. or electroph., 319.
paper and thin-layer chromatography of, 3581.
sepn., by TLC on cellulose nitrate membrane strips, 318.
Dyes, listed under commercial or common names, with corresponding Colour Index (Second Edn.) designations (under which references will be found).
Acid chrome dark blue. *Mordant Blue* 13.
acid fuchsine. *Acid Violet* 19.
alberon. *Mordant Blue* 29.
Alizarol cyanine RC. *Mordant Blue* 3.
Alizarin red S. *Mordant Red* 3.
Amido black 10 B. *Acid Black* 1.
basic fuchsine. *Basic Violet* 14.
Bordeaux S. *Acid Red* 27.
Brilliant green. *Basic Green* 1.
Chrome Azurol S. *Mordant Blue* 29.
Chromotrope 2B. *Acid Red* 176.
Chromoxane blue R. *Mordant Blue* 42.
Echtblausalz. *Azoic Diazo Component* 48.
Eriochrome black T. *Mordant Black* 11.
Eriochrome cyanine R. *Mordant Blue* 3.
Eriochrome red B. *Mordant Red* 7.
Fast blue BB. *Azoic Diazo Component* 20.
Fast grey RA. *Mordant Black* 15.
Fast red GG. *Azoic Diazo Component* 41.
gallein. *Mordant Violet* 25.
gallocyanine. *Mordant Blue* 10.
indigo carmine. *Food Blue* 1.
Meldola blue. *Basic Blue* 6.
new fuchsine. *Basic Violet* 2.
Nile blue A. *Basic Blue* 12.

Dyes,—*continued*
Orange 11. *Acid Orange* 7.
Plasmocorinth B. *Mordant Blue* 13.
Remazol brilliant blue. *Reactive Blue* 19.
Rhodamine B. *Basic Violet* 10.
Safranine T. *Basic Red* 2.
Saturn violet LRL. *Direct Violet* 46.
Titan yellow. *Direct Yellow* 9.
toluidine blue. *Basic Blue* 17.
tropaeolin O. *Acid Orange* 6.
tropaeolin OO. *Acid Orange* 5.
tropaeolin OOO. *Acid Orange* 7.
Variamine blue B. *Azoic Diazo Component* 35.
Victoria violet. *Acid Violet* 3.
Dyes, listed under designations in the Colour Index (Second Edn.).
Acid Black 1, as reagent for proteins, 2943, 3033.
in beer, 1769.
Acid Orange 5, for identn. of drugs in mixtures, 1117.
Acid Orange 6, as reagent for Pd, 2131.
Acid Orange 7, as reagent for Re, 1415
for detmn. of surfactants, 951.
for Pd, 2131.
Acid Orange 8, as reagent for Fe, 1415.
Acid Orange 19, as reagent for Fe, 1415.
Acid Red 27, as reagent for Co, 2120.
Acid Red 88, use of, in detmn. of Fe, 1415.
Acid Red 176, as acid-base indicator, 684.
Acid Violet 3, as reagent for Mg, 2001.
Acid Violet 19, for detection of fatty acids, 249.
of fatty alcohols, 235.
of phthalic esters, 2197.
Azoic Diazo Component 20, for differentiating fish species, 3026.
Azoic Diazo Component 35, as redox indicator, 996.
Azoic Diazo Component 41, for use in investigation of catecholamines, 3683.
Azoic Diazo Component 48, for detection of carbamate residues, 3638.
Basic Blue 6, as acid-base indicator, 2541.
reactions with anions, 3262.
Basic Blue 12, as reagent for NO_3^-, 3399.
Basic Blue 17, as reagent for mucopolysaccharides, 2264.
for Tl, 2634.
Basic Green 1, as reagent for Ga, 79.
Basic Red 2, as redox indicator, 2199.
reactions with anions, 714.
Basic Violet 2, for detection of fatty acids, 249.
of fatty alcohols, 235.
of phthalic esters, 2197.
Basic Violet 10, as reagent for Sb, 2068.
for Ga, 2628, 3354.
for Au, 1998, 3354.
Basic Violet 14, for detection of fatty acids, 249.
of fatty alcohols, 235.
of phthalic esters, 2197.
Direct Violet 46, as reagent for Mo, 2089.
Direct Yellow 9, as reagent for Mg, 1358.
Food Blue 1, for detmn. of H_2O_2, 3316.
Mordant Black 11, study of metal complexes of, 1957.
Mordant Black 15, as reagent for Co or Ti, 2058.
Mordant Blue 3, as reagent for Ga, 76.
in detmn. of F, 2720.
Mordant Blue 10, as redox indicator, 2694.
Mordant Blue 13, as reagent for Ca, 1542.
Mordant Blue 29, as reagent for Al, 2014, 3868.
Mordant Blue 42, as reagent for Ga, 77.
Mordant Red 3, as reagent for Mo, 2088.
Mordant Red 7, as metallochromic indicator, 2630.
Dyes,—*continued*
Mordant Violet 25, as metallochromic indicator 2630.
Reactive Blue 19, for assay of proteases, 3735.
Solvent Violet 13, as reagent for B, 1420.
Dysprosium, detmn., a.c. polarogr., 2645.

E

EDTA, detmn., complexom., as Bi complex, 2177.
voltammetry of, at rotating Pt electrode, 663.
Edan. (See *Salicylic acid, acetyl-, 2-diethylamin ethyl ester.*)
Effluents. (See *Industrial wastes.*)
Egg white, detmn. of lauryl sodium sulphate i spectroph., 1731.
Egg yolk, detmn. of Na in, potentiom., with Na^+ sensitive glass electrode, 1730.
sepn. of organomercury compounds from, b TLC, 3028
Eggs, detmn. of content, in foods, analytic constants for, 1725.
of ethoxyquin in, fluorim., 1558.
extraction of ^{14}C-labelled HEOD from, compar son of methods for, 1556.
Elastomers. (See also *Rubber.*)
ethylene - propene, analysis, by pyrolysis - GL 2259.
Electroanalytical chemistry, modular solid-state un for, 3238.
thin-layer cells for, 3237.
Electrodes, anion-specific, for Cl^-, Br^-, I^- and S^2 prepn. of, 3229.
Be-indicator, for titration of F^-, 2094.
Ca^{2+}-specific, use of, 1304.
carbon-paste, prepn. of, 3241.
cation-specific, production of, 1302P.
use of impregnated silicone-rubber membran for, 657.
ClO_4^--specific, study of, 3236.
F^--specific, 1920P.
for potentiom. titrations, 364.
LaF_3-membrane for, 1921.
production of, 1305.
for ion-concn. measurements, 3234P, 3235P.
for potentiom. titrations, 1307P.
glass, errors of, in buffer soln., 656.
internal capillary, for detmn. of pH, Na^+ a K^+, 3233.
graphite, chronopotentiom. study of, 1308.
halide-specific, 1919P.
Li - Li^+ in propylene carbonate as reference, 192
membrane, for potentiom. titrations, 2522.
mercury, for thin-layer chronopotentiometr 658.
mercury-coated platinum, for anodic-strippi voltammetry, 1923.
mercury-dropping, study of reactions at, seal polarographic cell for, 3240.
metallised membrane, for detmn. of O in a 1306.
micro reference, use of Pd - H probe-electrode 2519.
prevention of clogging of, device for, 1301P.
thin-layer, evaluation of, 2520.
Electrolysis, demonstration of, by projection, 65
Electron microprobe analysis, accuracy of, 1889.
apparatus for, 3979P.
applications of, 3190.
atomic number correction in, 2489, 2490.
evaluation of absorption-correction functions f 2488, 2489, 2490.
report of conference on, 1310.
spectrometer for, 634.

- **Electron paramagnetic resonance,** 1968 annual review, 677.
- **Electrophoresis** (*general*), 1968 annual review, 677.
  - apparatus for, continuous-flow, 3182.
- **Electrophoresis, column,** liquid-gradient zone, use of removable capsules in, 626.
  - on polyacrylamide gel, with continuous elution, 3974.
- **Electrophoresis, thin-layer,** detection in, by u.v. photography, 1886.
  - disc, radioactive counting in, 3975.
  - on paper, tank for, 625.
  - on polyacrylamide, apparatus for, 628, 2477.
    - use of pore-size concn. gradient in, 1885.
    - vertical device for, 3183.
  - on starch-gel, clarification of layer in, 1887.
  - purification of agar for use with proteins, 1884.
  - review, 1883.
  - storage of dried polyacrylamide gels for, 627.
- **Electroplating soln.,** detmn. of Cu in, column chrom., 2586.
  - of Au in, spectroph., 2600.
    - and Ag in CN^--containing, 3329.
  - nickel, detmn. of oxidation products of Ni sulphamate in, 2753.
    - of Zn in, polarogr., 192.
- **Elixir of terpin hydrate and codeine,** analysis, by temp.-programmed GLC, 3744.
- **Emulsifying agents,** identn., in cosmetics, by TLC, 317.
- **Emulsions,** detmn. of particle size of, 4036.
- **Endothion,** detmn., in formulations, volum., 1188.
- **Endrin,** detmn., in crop residues, in presence of Aramite, DDT and camphechlor, by TLC - GLC, 1805.
  - in presence of aldrin and dieldrin, i.r. spectroph., 548.
- **Enzymes** (*general*), applications of, 1968 annual review, 677.
  - assay, automated, comparison of manual and computer techniques for, 443.
    - in blood, photom., on electropherograms, 1648.
    - radiom., spurious isotope effects in ^{3}H-labelled substrates, 2962.
    - spectrofluorim., 2291.
    - systematic errors in, 1313C.
  - dehydrogenases, assay, 2963P.
  - in anaerobic sewage sludge, spectroph., 3888.
  - esterases, assay, spectroph., 446, 1098.
  - glycolytic, assay, by use of polyacrylamide entrapment, 1560.
  - hydrolases, assay, in blood plasma by gel electroph., 2967.
    - oxidoreductase assay, spectroph., use of carbonyl compound as substrate, 2963.
  - proteolytic, assay, colorim., fluorim. or spectroph., automated, 2348.
  - transaminases, assay, in blood serum, 1313C.
- **Enzymes, specific,** acetylcholinesterase, assay, in blood, spectroph., 2345.
  - β-acetylglucosaminidase, assay, in skin, spectroph., 1655.
  - acylphosphatase, assay, starch-gel or paper electroph., 453.
  - amylase, assay, in urine, 1313C.
  - arginase, assay, in rat-liver extracts, spectroph., 442.
    - spectroph., 1657.
  - aspartate aminotransferase, assay, in blood serum, 1096.
    - in rat-liver tissue, 1097.
  - ATPase, assay, in soluble prep., spectroph., automated, 1103.
  - butyrylcholinesterase, assay, potentiom., in inert atmosphere, 1099.
- **Enzymes, specific,**—*continued*
  - cathepsin C, assay, by test for amino-acids liberated from polypeptides by, 3734.
  - cathepsin D, assay, automated, 2348.
  - chitobiase, assay, in dermal fibroblasts, spectroph., ascorbic acid interference in, 2346.
  - choline acetyltransferase, assay, in brain homogenates, radiom., 3729.
  - cholinesterase, assay, in blood serum, comparison of substrates for, 2969.
    - fluorim., 447.
  - chymotrypsin, assay, gel electroph., natural inhibitors of, 1656.
    - in peas and beans, stability of inhibitors of, 3050.
  - creatine kinase, assay, fluorim., comparison of methods for, 2966.
    - in blood serum, 1313C.
      - effect of haemolysis in, 3731.
      - electroph. on cellulose acetate strip, 2965.
  - cytochrome, assay, by ammonium reineckate pptn. - spectroph., 1651.
    - reduced, preparative chromatography of, on Sephadex G-25 column, 1650.
  - diamine oxidase, assay, 1313C.
  - *o*-diphenol oxidase, assay, in coffee beans, spectroph., 3812.
  - dopa decarboxylase, assay, spectroph., automated, 3737.
  - ferrihaemoglobin reductase, assay, in erythrocytes, spectroph., 3728.
  - α-fucosidase, assay, in skin, spectroph., 1655.
  - β-galactosidase, assay, in skin, fluorim., 1655.
  - glucose-6-phosphate dehydrogenase, assay, in erythrocytes, 1095.
    - sepn. from erythrocytes, agar-gel electroph., 445.
  - β-glucuronidase, assay, in milk, spectroph., 3036.
    - in skin, spectroph., 1655.
  - glutamate decarboxylase, assay, in 10-picomole region, by TLC - fluorim., 2940.
    - in rat-brain homogenate, by isotope dilution and scintillation counting, 3738.
  - glutamate:oxo-acid aminotransferase, assay, colour test for, 3730P.
  - γ-glutamyl transpeptidase, assay, in blood serum., 1313C.
  - histidine ammonia-lyase, assay, 1313C.
  - histidine decarboxylase, assay, in gastric mucosa, radiom., 454.
  - lactate dehydrogenase, assay, in blood serum, electroph. - fluorim., 1649.
      - or heart tissue, 444.
    - spectroph., use of pyruvate as substrate in, 2963.
  - leucine aminopeptidase, assay, spectroph., continuous, 2347.
  - lipase, assay, in blood serum, photom., 1313C.
    - spectrofluorim., comparison of ester substrates for, 2968.
  - luciferase, sepn. from adenylate kinase, by gel filtration, 3739.
  - malate synthase, assay, by TLC and scintillation spectrometry, 2350.
  - α-mannosidase, assay, in skin, spectroph., 1655.
  - 4-methylumbelliferyl-β-glucosidase, assay, in blood plasma, fluorim., 3733.
  - monoamine oxidase, assay, fluorim., 1313C.
  - myeloperoxidase, assay, disc electroph., 1652.
  - ornithine carbamoyltransferase, assay, in blood serum, spectroph., 2964.
  - pancreatopeptidase E, assay, spectroph., hide-powder substrate for, 3735.

Enzymes, specific,—*continued*
  pepsin, assay, in blood serum, comparison of methods for, 2970.
      spectroph., comparison of haemoglobins as substrates for, 2349.
    in gastric juice, blood and urine, 1101.
    volum., use of casein to replace egg albumin, 3736.
  peptidase, assay, by gel filtration and radiom. observations on the column, 1100.
  phosphatase, alkaline, assay, analogue computer for, 1236.
      fluorim., automated, 3732.
      gel electroph., prepn. of thick and thin layers for, 448.
      in milk, substrate for, 3035.
    sepn., in biol. tissues, gel electroph., on acrylamide discs, 449.
  phospholipase A, assay, spectroph., 1313C.
  plasmin, assay, spectroph., hide-powder substrate for, 3735.
  proteinase, assay, in blood plasma, spectroph., 2971.
    in papaya latex, column chrom. - spectroph., 2972.
  [^{14}C-]purine phosphoribosyltransferase, assay, in erythrocytes, by TLC - liquid scintillation counting, 1654.
  reduced-NAD:methaemoglobin, reductase, assay, in erythrocytes, spectroph., 3728.
  trypsin, assay, by test for amino-acids liberated from polypeptides by, 3734.
    gel electroph., characterisation of natural inhibitors of, 1656.
    in peas and beans, and stability of inhibitors of, 3050.
    in soln. with chymotrypsin, spectroph., 1102.
    spectroph., 3735.
  tryptophan oxygenase, assay, in presence of ascorbic acid, spectroph., 1653.
  tyrosine decarboxylase, assay, spectroph., automated, 3737.
  urease, assay, 1313C.
Ephedra nevadensis, analysis of triglycerides in seed fat of, by TLC and GLC, 533.
Ephedrine, detmn., in pharm. compound powders, colorim., 496.
    in syrups, in presence of methapyrilene fumarate and codeine phosphate, by GLC, 1716.
    in urine, in presence of amphetamine and methylamphetamine, by TLC - colorim., 3627.
  identn., by NMR, 1702.
  TLC of, 2358.
Epitestosterone. (See *Androst*-4-*en*-3-*one*, 17α-*hydroxy*-,)
Erbium, detmn., photom., 779.
Erbium, reagent for, methylthymol blue, 779.
Ergocalciferol, detmn., in ergosterol irradiation products, polarogr., 2366.
    in pharm. prep., in presence of cholecalciferol, by GLC, 2990.
    in vitamin D high-potency prep., by TLC - spectroph., 3752.
  sepn. from cholecalciferol, by GLC of their isotachysterol isomers, 2991.
Ergocornine, identn., in ergot, by TLC, 1113.
Ergocristine, identn., in ergot, by TLC, 1113.
Ergocryptine, identn., in ergot, by TLC, 1113.
Ergometrine, identn., in ergot, by TLC, 1113.
Ergot, sepn. of indole compounds in, column - thin-layer chrom., 413.
Ergotamine, identn., in ergot, by TLC, 1113.
Ergothioneine, detmn., by NaN_3 - KI reaction, volum., 3701.
Errors. (See under *Statistics.*)
Erythrocytes, analysis of carboxylic acids in, by GLC, 380.
  assay of ferrihaemogolbin reductase in, spectroph., 3728.
    of glucose-6-phosphate dehydrogenase in, 1095.
    of [^{14}C]-purine phosphoribosyltransferase in, by TLC - liquid scintillation counting, 1654.
  detmn. of creatine in, spectroph., 2317.
    of porphyrins in, by TLC of methyl esters and spectrophotometry, 2949.
  identn. of neuraminic acid in, by TLC, 402.
  sepn., by centrifugation in a dextran medium, 348.
    of glucose-6-phosphate dehydrogenase from, gel electroph., 445.
Essential oils, analysis, applications of TLC in, review, 3579.
    by GLC - mass spectrom., 2228.
    in pharmacopoeial drugs, by TLC of vapour applied to the plate, 3742.
  apparatus for distillation of, 3914.
Esters, detmn. of free alcohol in, spectroph., 259.
Estragole. (See *Chavicol, methyl-*.)
Ethane, sepn. from methane and N_2O, by GLC, 712.
—, **1,2-dichloro-,** detmn., in cereals, by GLC, 3857.
    in spices, by GLC, 3053.
—, **1,1-dichloro-2,2-bis(4-chlorophenyl)-.** (See *TDE*).
—, **1,1,1-trichloro-2,2-bis-(4-fluorophenyl)-** detection, on TLC plates, fuchsine dyes for, 546.
Ethanediol, detmn. of saponification values of esters with dicarboxylic acids, 2845.
  dinitrate, detmn., in air, in presence of nitroglycerin, photom., 1200.
  sepn. from its oligomers, column chrom., with thermal detection, 624.
—, **4-hydroxy-3-methoxyphenyl-,** detmn., in urine, by TLC, 411.
      in presence of O-methyladrenalines and phenolic acids, by TLC, 3683.
      u.v. spectroph., 1024.
Ethanol, detmn., in beverages, pyknom., IUPAC report on, 3076.
      turbidim., 1169.
    in blood, by GLC, 1008, 3633, 3635.
      dual-column technique, for, 3634.
    in breath, apparatus for, 3632P.
      and indicator substance for, 3631P.
    in confectionery, spectroph., 3015.
      by GLC, 3796.
    in potable spirits, pyknom., accuracy of, 3816.
      IUPAC report on, 3076.
    in presence of diethyl carbonate and diethyl oxalate, by GLC and i.r. identn., 2789.
    in urine, by GLC, 3636.
    of H_2O in, by GLC, 240.
    polarogr., as dinitrobenzoic ester or dinitrophenyl ether, 238.
  differentiation of fermentation from synthetic, by scintillation counting of ^{14}C, 531.
—, **2-amino-,** detmn., fluorim., 1054.
—, **2-amino-1- and -2-phenyl-,** sepn. and detection of *N*-substituted deriv. of, by GLC or TLC, 925.
—, **2-chloro-,** detection, in foods, i.r. spectroph., 3061.
    detmn., in foods, by GLC, 1752.
—, **2-ethoxy-,** detmn. of H_2O in, by GLC, 240.
—, **2-methoxy-,** detmn. of H_2O in, by GLC, 240.
—, **2-morpholino-1- and 2-phenyl,** sepn. and detection of N-substituted deriv. of, by GLC or TLC, 925.
—, **1- and 2-phenyl-2-pyrrolidino-,** sepn. and detection of N-substituted deriv. of, by GLC or TLC, 925.

Ether, allyl undecenyl, sepn. from vinyl undecenoate, by TLC, 1516.
—, bis(4-nitrophenyl), detmn., i.r. spectroph., 926.
—, ethyl, detmn. of anisole in, by GLC, 571.
Ethers, methyl phenolic, detection, on Whatman No. 1 paper, spray reagents for, 2299.
  sepn. by GLC, 3501.
Ethynyl groups, detmn. of active H in, 3492.
Ethinyloestradiol, detmn., in pharm. tablets, spectroph., automated, 3779.
Ethion, detmn., by GLC, after co-distillation clean-up, 1808.
      comparison of dual-detection systems for, 1806.
Ethopabate, detmn., in feeding-stuffs, in presence of amprolium, automated, 3111.
Ethopropazine, sepn. from related phenothiazine deriv., by TLC, 1694.
Ethoxyquin, detmn., in chicken tissues and eggs, fluorim., 1558.
Ethyl ether. (See *Ether, ethyl.*)
Ethyl groups, deuterated, detmn., in fermentation liquors, by NMR or mass spectrom., 375.
Ethylene, analysis of isomers of ^{2}H-labelled, spectroph, 1287.
  trialkyl-deriv. of, differentiation of *cis - trans* isomers of, i.r. spectroph., 2155.
—, chloro-, analysis, by GLC, 2247.
    detmn., in hydrogen chloride, by GLC, 2098.
      of HCl in products in manufacture of, by reaction GLC, 331.
      of impurities in, by GLC, 966.
—, trichloro-, detmn., in spices, by GLC, 3053.
Ethylene oxide, analysis of copolymers with propylene oxide, i.r. spectroph., 2241.
  detmn., in fumigated dates, in presence of its toxic residues, by GLC, 2411.
    in mixtures with aldehydes, by GLC, 233.
    in non-ionic surfactants, 1495.
    in wheat and flour, by solvent extraction - GLC, 1192.
Ethylenediamine-*NNN′N′*-tetra-[2-(propoxyethoxy ethanol, detmn., potentiom., 311.
Europium, detmn. of traces in other rare-earth metals, by isotope dilution and rate of evaporation from solid surfaces, 3283.
  sepn. from Gd or Sm, by ion exchange, 3363.
Exhaust gases, car, detmn. of C_1 - C_{12} hydrocarbons in, by GLC, 1817.
      of N-oxides in, comparison of methods for, 1818.
    identn. of aromatic carbonyl compounds in, by paper chromatography and TLC, as 4-nitrophenylhydrazones, 1820.
Explosives, analysis of traces of aromatic nitro-compounds in, by TLC, 1525.
  detmn. of polystyrene in, by pyrolysis - GLC, 2852.
Extraterrestrial materials, analysis, 1968 annual review, 1948.

F

Faeces, detmn. of bile acids in, by GLC, 407.
      by TLC - fluorim., 1596.
      ^{14}C-labelled, in, by solvent extraction - radiom. or chrom., 3681.
    of N in, spectroph., 2871.
    of radioactivity in, A.E.R.E. procedure for, 979.
    of trace elements in, spectrogr., 1533.
  extraction of ^{14}C-labelled HEOD from, comparison of methods for, 1556.
Fats and fatty oils. (See also *Lipids.*)
  analysis, applications of NMR in, 2C.
    bibliographies of, 1174, 3817.
    of fatty acids of, by GLC, as methyl esters, 3819.
    of tocopherols in, by TLC, 3824.
  detection of argemone oil in, by solvent extraction - paper chrom., 1172.
    of chick oedema factor in, by GLC, 3114.
  detmn. of 3-aminocrotonic acid derived from plastics packaging in, polarogr., 3830.
    of citric acid in, potentiom., 3083.
    of diacyl peroxides in, oscillopolarogr., 1775.
    of gossypol in, spectroph., 1790.
    of metals in, 2535C.
    of phenolic antioxidants in, polarogr., 3827.
    of P and trace metals in, spectroph., 1778.
    of polycyclic aromatic hydrocarbons in, column and thin-layer chrom. - fluorim., 1777.
    of solid matter at 10°, by NMR, 1776.
  fractionation of unsaponifiable matter in, by TLC, 2413.
  losses of fatty acids during saponification and extraction of, 384.
  sepn. and identn. of autoxidation products of, by TLC of 2,4-dinitrophenylhydrazones, 3821.
  TLC of sterol acetates in, use of 'wedge strip' technique, 3825.
  vegetable, evaluation of quality of, use of fullers' earth in, 3823.
Fats and fatty oils, hydrogenated, detmn. of Ni in, 2535C.
Fatty acid esters, detmn. of double-bond position in unsatd., mass spectrom., as trimethylsilyl ethers, 3520.
  methyl, analysis, alkali-catalysed transesterification methods for, 1313C.
      radiom. - gas chrom., 1313C.
    prepn. from total lipids, 2301.
    sepn. of resin acids from, gel-permeation chrom., 2232.
    unsatd., detmn., by GLC before and after hydrogenation, 532.
  with propane-1,2-diol, detmn., by GLC as trimethylsilyl ethers, 522.
  sepn., by use of aq. surfactant soln. and centrifuging, 3079.
Fatty acids. (For the lower members of the series see under *Carboxylic acids.*)
  analysis, review of spectroscopic methods for, 2C.
  C_{16} to C_{24}, structural analysis of, by temp.-programmed GLC - mass spectrom., as trimethylsilyl deriv., 3818.
  C_{18} acetylenic, PMR spectra of, 252.
  ^{14}C-labelled, analysis of mixtures of, by GLC, 1878.
  cyclic, hydrogenated, detmn. of aromatic carboxylic acids in, by reduction - u.v. spectroph., 2195.
  detection of chick oedema factor in, by GLC, 3114.
  detmn., in blood serum, spectroph., 381.
    in tobacco and tobacco smoke, radiom. or gas chrom., 2295.
    simult. with cholesterol, paper chrom., 1588.
  GLC of, support for, 1248.
  hydroxy-, sepn., by GLC, 236.
  methylation of, by pyrolysis of tetramethylammonium salts, 901.
  methyl-branched, GLC of diasteroisomers of, in biol. tissues, 1021.
  sepn., by TLC, detection in, 249.
    by use of aq. surfactant soln. and centrifuging, 3079.

Fatty acids,—*continued*
- validity of castor oil turbidity test for fatty acids containing hydroxy-, hydroperoxy- and epoxy-groups, 3826.

Fatty alcohols, sepn., by GLC, 236.
    - by TLC, detection in, 235.
    - by use of aq. surfactant soln. and centrifuging, 3079.
- substituted, TLC of positional isomers of, 251.
- validity of castor oil turbidity test for acetates and epoxy-deriv. of, 3826.

Feeding-stuffs, assay of oxytetracycline in, microbiol., collaborative study of, 1791.
- detmn. of amprolium and ethopabate in, automated, 3111.
    - of choline in, discussion of methods for, 3109.
    - of furazolidone in, column chrom. - spectroph., 2423.
    - of lignin in, calorim., in sealed bomb, 3845.
    - of methallibure in, column chrom. - spectroph., 1792.
    - of NO_3^- and NO_2^- in, spectroph., 3107.
    - of N in, comparison of Dumas and Kjeldahl methods for, 3106.
    - of P in, comparison of methods for preparing samples for, 3090.
    - of raceophenidol in, spectroph., 3112.
    - of Se in, fluorim., 994.
    - of α-tocopherol in, chrom. methods for, 3846.
    - of trace metals in, atomic-absorption spectroph., 1787, 2421.
    - of Zn, Mn and Fe in, atomic-absorption spectroph., 3105.
- identn. of chlor-oxy- and tetracycline in, microscopic, 3110.
- sampling in bulk, comparison of instruments for, 3104.

Fenchlorphos, detmn., by GLC, comparison of dual-detection systems for, 1806.
    - in animal dips, automated coulom., 1804.

Fenchone, detmn., in fennel, simult. with anethole, by GLC, 2979.

Fennel, detmn. of anethole and fenchone in, by GLC, 2979.

Fenthion, detmn., in biol. materials, in presence of metabolites of, by solvent extraction - column - gas chrom., 2409.

Ferrates(III), trioxalato-, polarogr. behaviour of, under u. v. irradiation, 2699.

Ferrites. [See also *Ferrates(III)*.]
- analysis, atomic-absorption spectroph., 2110.
    - of Co - Zn, paper chrom., 3460.
    - of Fe in, in presence of Al and Ni, complexom., 173.

Ferrocyanide, detmn., amperom., 3271.
    - in sodium chloride, photom., 1348.

Ferroin, applications of solvent extraction of ion-association compounds of, 6.

Fertilisers, analysis, atomic-absorption spectroph., 3101.
    - of nitric phosphates, by X-ray diffraction, 2420.
- detmn. of biuret in mixed, ion-exchange chrom. - complexom., 1183.
    - of NO_3^- in, photom., 1785.
    - of N in, collaborative study of methods for, 3103.
    - of N, P and K in mixed, volum., on a single sample, 1182.
    - of K in, flame photom., extractant for, 3102.
- sampling of, tube for, 3100.

Fibres, analysis of mixtures of, B.S.I. methods for, 323.
- colour reactions of squeezed tips of, 962.
- detmn. of specific surface area of, by low-temp. gas sorption, 2235.

Filtration, apparatus for semi-micro scale, 1838.
- B.S.I. specification for filter-flasks, 581.
- gel-, application of, before column chromatography, 1616.

Fireflies, fractionation of extracts of, by gel filtration, 3739.

Fish, apparatus for expressing fluid from, 3135.
- detmn. of NH_3 in, by diffusion and use of Nessler reagent, 3800.
    - of malathion in, by solvent extraction - GLC, 3127.
- identn. of species of, by disc-electroph. of aq. extracts of flesh, 3025.
    - enzymic - gel electroph., 3026.
    - in cooked and raw products, disc-electroph., 3027.
- sepn. of DDT, DDE and TDE in, by TLC, 372

Fission products, sepn., by electrophoretic focusing, 3374.

Flame photometry. (See *Photometry, atomic-emission.*)

Flavanone, 3-hydroxy-, detection, on paper or thin-layer chromatograms, 1625.

Flavonoids, analysis, by NMR, review, 1074.
- detmn., in pharm. mixtures, column chrom. - spectroph., 470.
- sepn., by TLC on poly(vinylpyrrolidone), 1073.
    - in plants, ion-exchange chrom., 430.

Flavouring agents, detmn. of ethanol in, turbidim., 2832.

Flavours, analysis, i.r. interferom., computer-programmed, 2396.
- identn. of volatile components in cheese and cheese powders, by temp-programmed GLC, 2401.
- sepn., column chrom. at 1° and analysis by GLC - mass spectrom., 1161.

Flour, assay of α-amylase activity in, collaborative studies of, 2400.
- detection of uric acid in, enzymic - spectroph., 3017.
- detmn. of bound water in, by NMR, 3794.
    - of carotenoids in, spectroph. and column chrom., 3793.
    - of damaged starch in, enzymic, 505, 506.
    - of fumigants in, by GLC, 3857.
        - by solvent extraction - GLC, 1192.
    - of proteins in, in presence of reducing sugars, colorim., 507.
- fractionation of proteins of hard wheat-, by modified Maes continuous extraction process, 3834.
- sepn. of proteins from N compounds of lower mol. wt. in., ion-exchange chrom., 3018.

Flue gases, detmn. of N- and S-oxides in, 1220.
    - of S-oxides in, apparatus for, 2449.

Fluocinolone acetonide, detmn., in pharm. prep., in presence of prednisone and paramethasone acetate, by TLC - spectroph., 3778.

Fluoranthrene, sepn. from other polycyclic hydrocarbons, by TLC, 291.

Fluorene-9-carboxylic acid, sepn. of deriv. of, by TLC and characterisation by u.v. and fluorescence spectra, 3848.

Fluoride, detmn., atomic-absorption spectroph., 156.
    - by diffusion of HF - spectroph., 2722.
    - by distillation - spectroph., 848.
    - by pptn. titration with $Pb(NO_3)_2$, 37.
    - coulom., 2094.
    - electrom., with F^--sensitive membrane electrode, 157.
    - in air, by the use of a recording SO_2 analyser, 1198.
    - in biol. materials, by GLC, as fluorotrimethylsilane, 3619.
    - in bone, potentiom., 364.

Fluoride, determination—*continued*
  in dental enamel, electrom., with use of F^--sensitive electrode, 2878.
  in human milk, electrom., after centrifugation, 3620.
  in minerals, ores or rocks, by pyrohydrolysis - photom., 1391.
    electrom., with F^--sensitive membrane electrode, 159.
  in natural water, potentiom., with F^--sensitive electrode, 2437.
    test strip for, 3867P.
  in presence of interfering cations, potentiom., with F^--sensitive electrode, 2721.
  in table salt, spectroph., 1741.
  in toothpaste, potentiom., 2229.
  in urine, semi-automated, 3618.
  polarogr., 3432.
  potentiom., 1921.
    with F^--sensitive electrode, 1410.
  spectroph., with Th chloranilate, study of, 155.
 diffusion cell for, 3148.
 electrochemical generation of F^- through permselective membrane, 2723.
Fluorimetry, 1968 annual review, 1948.
 application of, for on-line contamination monitoring, 3988.
 at low temp., device for, 653.
 comparison of quinine bisulphate and 9,10-diphenylanthracene as standards for, 654.
 of inorg. compounds, review, 1955.
Fluorine, analysis of mixtures of, with HF, NF_3, N_2F_2 and N_2F_4, by GLC, 2724.
 detmn., by neutron activation, 3292.
  in aq. soln. of phosphorus electrofurnace gases, 3405.
  in biol. materials and soils, 3096.
  in fluorides, by neutron absorption, 3433.
  in foods, volum., 501.
  in Fe, In, Nb or Zn fluorides or oxyfluorides, by reaction with silicon, 2719.
  in minerals, ores or rocks, spectroph., 2720.
  in nuclear-fuel re-processing soln., potentiom., 1384.
  in org. compounds, by O-flask combustion - conductim., 1438, 2145.
  in pharm. prep., by O-flask method, 457.
  in presence of UO_2^{2+} or PuO_2^{2+}, by distillation - volum., 2093.
  in S-containing inorg. compounds, by combustion, 144.
Fluorite, detmn. of SiO_2 in, photom., 3336.
Fluorspar, detmn. of SiO_2 in, photom., 3336.
Fluphenazine, sepn. from related phenothiazine deriv., by TLC, 1694.
Flurandrenolone, sepn., from related steroids, in anti-inflammatory prep., by TLC, solvent systems for, 1142.
Food dyes, identn., column or thin-layer chrom., 521.
  spectroph., 3054.
 water-sol., detmn., spectroph. or chrom., after adsorption on polyamide powder, 2406.
Food packaging, testing for migration of 3-aminocrotonic acid into foods from, by TLC and polarography, 3830.
Foods. (See also *Flavours.*)
 analysis, applications of enzymic methods in, 1313C.
   of neutron activation in, 2C.
  biochemical and nuclear potentialities in, 2395
  legislation and regulations during 1967, review of, 498.
 detection of aflatoxins in, by TLC, solvent systems for, 3788.
Foods, detection—*continued*
   of plasticisers from packaging film in, by TLC, 3011.
  detmn. of 3-aminocrotonic acid derived from plastics packaging in, polarogr., 3830.
   of benzo[*a*]pyrene in smoked, comparison of methods for, 1727.
   of Br^- in, absorptiom., 3872.
   of chlorohydrins in fumigated, by GLC, 1752.
   of egg content of, analytical constants for, 1725.
   of F in, volum., 501.
   of fumaric acid in, polarogr., 1748.
   of Pb in, spectroph., after co-pptn. with $SrSO_4$, 1720.
   of lysine in, spectroph., 1726.
   of Mn in, colorim., 1780.
    spectroph., by modified A.O.A.C. method, 3012.
   of Hg in, enzymic - spectroph., 1719.
   of Sr in, atomic-absorption spectroph., 2272.
   of Sn in, spectroph., 2397.
  differential staining of contaminants of animal and plant origin in, 1717.
  identn. of amino-acids in, electroph. - circular TLC, 419.
   of emulsifiers in, paper and thin-layer chrom., 3055.
  sepn. of extraneous materials from, 3010.
Foods, canned, detmn. of equilibrium r.h. in, SeO_2 hygrometric probe for, 3787.
Forensic analysis. (See also *Toxicological analysis.*)
  applications of neutron-activation in, 1C.
  detmn. of opiates in illicit narcotic mixtures in, column chrom., 458.
  trace analysis of glass fragments in, 884.
Formaldehyde, detection, in beer, spectroph., 3071.
  detmn., complexom., 2169.
   in air, absorptiom., 1821.
   in leather, by TLC, 2260.
   in presence of alcohols, photom., 2795.
    of monosaccharides, volum., 2794.
   iodim., 2170.
   photom., 246
  oxidation of, by $KMnO_4$, study of, 253.
Formamide, dimethyl-, detmn., in alkanes from diesel oil, by GLC, 3564.
Formic acid, detmn., in acetic acid, iodim., 3515.
   photom., 902.
  oxidation of, with $KMnO_4$, study of, 253.
Freeze-drying, flasks for, 1840.
Frequentometric analysis, principles of, 1954.
Fructosans, sepn., by gel filtration - paper chrom., 1566.
Fructose, detmn., in plant extracts, in presence of glucose, spectroph., 1565.
   in presence of excess glucose, spectroph., 2903.
Fructose 1-phosphate, detmn., enzymic - spectroph., 2904.
Fruit, detection of thiram on, by TLC of benzene extract, 1750.
  detmn. of ascorbic acid in, paper chrom. - volum. or spectroph., 3088.
   of dicofol in, spectroph., 3058.
   of dithiocarbamate fungicides in, spectroph., 555.
   of pesticides in, by GLC, 3059.
   of trace elements in, spectrogr., 1533.
  sampling of, B.S.I. methods for, 517.
  solvent extraction of DDT from, 3057.
Fruit aromas, analysis of carbonyl constituents of, by GLC as 2,4-dinitrophenylhydrazones, 2405.
  GLC of, on Poropak Q columns, 2404.
Fruit juice. (See also *Cranberry juice, Orange juice.*)

Fruit juice,—*continued*
  detection of adulteration of, in dark-coloured samples, paper chrom., 3044.
  detmn. of Cl^- in, volum., 1164.
    of Na, K and Ca in, flame photom., 1164.
    of sorbitol in, by TLC - fluorim., 3042, 3043.
Frusemide, detmn. in pharm. tablets, spectroph., 1143.
Fuel de-icers. (See *Antifreeze substances.*)
Fuel gas, analysis, by GLC, B.S.I. method for, 949.
      device for sample-injection in, 1244.
  detection of odorants in, composition for, 950.
  detmn. of thiol-S in, B.S.I. method for, 305.
Fuel oil, detmn. of sediment in, B.S.I. method for, 306.
    of thiol-S in, B.S.I. method for, 305.
  methods for production control of, 2220.
Fullers' earth, detmn. of 'castor oil value' of, spectroph., 3823.
Fulvic acids, detmn., in soil humus, conductim. or potentiom., 3840.
Fumaric acid, detmn., in bread, simult. with maleic acid, ion-exchange - thin-layer chrom., 523.
    in foods, polarogr., 1748.
Fumaric acid esters, detmn. of free alcohol in, spectroph., 259.
    in evaporated milk, by GLC - mass spectrom., 510.
    volum., 920.
2-Furaldehyde, detmn., by Br oxidation, 2207.
—, 5-hydroxymethyl-, detmn., by GLC, 3556.
      in coffee-roasting plant efluents, chrom. and electroph., 2436.
      in milk powder, spectroph., 511.
Furan, 2-methyl-, detmn., amperom., 2836.
—, tetrahydro-, detmn. of impurities in, by GLC, 2820.
Furan-3-one, 2-[2-(diethylamino)prop-2-yl]dihydro-, use of, as reagent for metals, 2537.
Furazolidone, detmn., in feeding-stuffs, column chrom. - spectroph., 2423.
    in presence of other nitrofuran deriv., by TLC - spectroph., 3773.
Furfuryl alcohol, detmn., by Br oxidation, 2207.

G

Gadolinium, sepn. from Eu, by ion exchange, 3363.
Gadolinium compounds, analysis of thin films of Gd_3Fe_5, by ion-exchange - X-ray spectrogr., 2643.
Gadolinium ferrate(III), analysis of thin films of, by ion-exchange - X-ray spectrogr., 2643.
Gadolinium iron oxide. [See *Gadolinium ferrate (III)*.]
Gadolinium(III) oxide, detmn. of rare-earth impurities in, by neutron activation, 2640.
Galactolipids, sepn., in bean leaves, column chrom., 2911.
Galactosamine, sepn. from glucosamine, ion-exchange chrom., 1568.
Galactose, detmn., enzymic, 1313C.
      – spectrofluorim., 2291.
Gallic acid, detmn., in presence of tannin, spectroph., after fixation with poly(vinylpyrrolidone), 2909.
Gallium, concn. of, on pyrogallol - formaldehyde resin, 3276.
  detmn., below limit of visible detection, spectrogr., 3291.
    by solvent extraction - spectroph., 2628.
    complexom., 2626.
    in indium, by solvent extraction - spectroph., 3354.
    in industrial products, by solvent extraction - spectroph., 78.

Gallium, determination—*continued*
    in minerals, ores or rocks, by solvent extra tion - spectroph., 2628.
      photom., in presence of Pb and Zn, 77.
    in Nb alloys, complexom., 3416.
    in presence of Al, complexom., 75.
      of In, complexom., by use of triethylen tetramine-*NNN′N″N‴N‴*-hexa-acetic acid, 2552.
      of other metals, spectroph., 3352.
    in semiconductors, photom., 79.
    of Sb in, anodic-stripping voltamm., 82.
    of impurities in, by neutron activation, 136
    of protein-bound, in blood, by gel filtratio radiom., 2854.
    photom., 76, 2627.
      comparison of reagents for, 768.
    spectroph., 2019.
  sepn. from In, by pptn. as hydroxide, 80.
Gallium, reagents for, brilliant green, 79.
  chlorsulphophenol R, 2019.
  Chrome Azurol S, 77.
  Chromoxane blue R, 77.
  (3,4-dihydroxyphenylazo)benzoic acid, 768.
  Eriochrome cyanine R, 76.
  malachite green, 78.
  nitrosulphophenol R, 3352.
  Rhodamine B, 2628, 3354.
  stilbazo, 768.
  xylenol orange, 2627.
Gallium arsenide, detmn. of impurities in, by neutr activation, 81.
      spectrogr., improvement of sensitivity of, 1
    of Zn in, by isotope dilution with substoichei metric sepn., 3353.
Gangliosides, detmn., in total lipid extracts, b TLC - densitom., 1026.
Garlic, detmn. of alliin in, enzymic - colorim., 375
  TLC of amino-acids isolated from 3755.
Garnets, analysis, spectrogr., use of laser micr probe in, 2764.
Gas analysis. (See under *Gases.*)
Gas oil, detmn. of dimethylformamide in alkan from, by GLC, 3564.
Gases. (See also *Blast-furnace gas; Fuel gas; Fl gases; Natural gas; Town gas.*)
  analysis, acoustical detector with H-specifici for, 2570.
    apparatus for, 1221P.
    by Orsat apparatus, B.S.I. method for, 390
    of ^2H-labelled, i.r. spectroph., 1287.
    of mixtures of, by GSC, detector for, 1222.
      containing hydrocarbons, by GLC, 2563.
      of Ar, N and O, by GLC, 3287.
    of small vol., by GLC, 1834.
  apparatus for dispensing, 3893P.
    for measuring absorption or evolution automatic, 1225.
  detection, in mixtures, polarogr., 1224.
    of missile fuels in, colour reactions for, 3862
    of H_2O in, apparatus for, 3906P.
  detmn., in minerals, by GLC, apparatus for, 1223
    in radioactive alloys, 697.
    of C, N and O in, detmn., by deuteron activ tion, 1336.
    of $COCl_2$ in, by light-scattering, apparatus fo 3120P.
    of dissolved, in boiler water, electroche apparatus for, 3882P.
    of ^{18}O in, by proton activation and neutr time-of flight spectrometry, 1403.
    of SO_2 and H_2S in, spectroph., 1216.
    of H_2O in, by GLC, 2225.
      colorim., 42.

es,—*continued*
device for mixing, automatic, 1833.
measurement of vol. of, constant-pressure device for, 3145P.
ampling of, from gas-cooled nuclear reactor, 3902P.
  in detection of leaks in pipe-lines, 3143.
sepn. of Ar, CO, CO_2, H_2S, O and SO_2, by GLC, 3305.
soline. (See *Petrol.*)
stric juice, assay of pepsin in, 1101.
ntamycin, sepn. of C_1, C_{1a} and C_2, paper chrom., with use of ninhydrin, 3748.
  of components of, chrom., 1120.
ntisic acid, Na salt, detmn., potentiom., 2391.
raniol, sepn. from citronellol, by TLC, 955.
rmane, tetraphenyl-, sepn. from chlorophenyl deriv., by TLC, 2662.
rmanium, concn. of, on pyrogallol - formaldehyde resin, 3276.
detmn., in coal, by GLC, 881.
  in copper ores, by neutron activation, 3328.
  of impurities in, by neutron activation, 113, 2049.
    adsorption phenomena in, 114.
    in sputtered layers of, mass spectrom., 112.
  of Si in, mass spectrom., 2050.
  spectrogr., thermal and atomic-fluorescence emission in, 2672.
rmanium compounds, with Mo, detmn. of Ge and Mo in, 2713.
rmanium sulphide, pptn. of, completeness of, 3385.
hee. (See also *Butter fat.*)
identn. of flavours in, by steam distillation and TLC as 2,4-dinitrophenylhydrazones, 1160.
bberellic acid, detmn., in plant material, by TLC - fluorim., 2424.
bberellins, sepn. of A_1 to A_9 and A_{13}, by TLC, 3847.
itoxin, i.r. spectra of polymorphs of, 2359.
lass, analysis of fragments of, for forensic purposes, 884.
detmn. of devitrified Li_2SiO_3 and $Li_2Si_2O_5$ in, i.r. spectroph., 2770.
  of Fe^{II} in, volum., 110.
  of P and Si in, spectroph., 2065.
  of SiO_2 in, by distillation of SiF_4, 3381.
iron phosphate, detmn. of Fe^{II} and Fe^{III} in, by Mössbauer effect, 205.
optical, chemical durability of, 2478.
liadin, identn. of peptides in, paper electroph. - column chrom., 2941.
lucagon, sepn. from insulin, gel electroph., 1068.
lucono-δ-lactone, detmn., in meat products, polarim., as molybdate complex, 3799.
lucopyranoside, α-D-methyl-, detmn., 897.
lucosamine, sepn. from galactosamine, ion-exchange chrom., 1568.
lucose, detection, in urine, reagent and test paper for, 3643P.
detmn., enzymic - spectrofluorim., 2291.
  in blood, by 'Haemo-Glucotest' strip, 2902.
    enzymic - photom., 1561.
    enzymic - spectroph., 2899.
    in presence of other aldoses, 2901.
    spectroph., 1014.
  in blood plasma, enzymic - fluorim., 1563.
  in blood serum, coulom., 1564.
    and c.s.f., enzymic - spectroph., 2292.
  in sea-water, enzymic - fluorim., 3879.
    comparison with bioassay, 3880.
  in urine, enzymic, 2900.
    enzymic - fluorim., semi-automated, 374.
    spectroph., 1562.

Glucose, determination—*continued*
  of deuterated ethanols in fermentation products of, by NMR - mass spectrom., 375.
sepn. from starch, and detmn., spectroph., 1018.
Glucuronides, sepn., from urine, thin-layer or ion-exchange chrom., 2907.
Glutamine, sepn. from glycine, by TLC, thermal, 1053.
—, acetyl-, detmn., in pharm. prep. containing sugars, ion-exchange chrom. - colorim., 1710.
Glutaraldehyde, detmn., in leather, by TLC, 2260.
Glutaric acid, 2-oxo-, sepn., of methoxime of, by TLC, 3657.
Glutarimide, 2-phenyl-, detmn., in biol. materials, in presence of glutethimide, by GLC, 3625.
Glutathione, detmn., in biol. tissues, spectroph., 1613.
reduced, detmn., in tissue extracts, as complex with phthalaldehyde, fluorim., 421.
Glutethimide, detection, in stomach contents, by TLC - mass spectrom., 370.
detmn., in biol. materials, in presence of 2-phenylglutarimide, by GLC, 3625.
  in blood and urine, in presence of its metabolites, by GLC, 2889.
  in presence of 4-ethyl-4-phenylglutaramic acid, ion-exchange chrom. - spectroph., 1684.
Glyceric acid, ^{14}C-labelled, detmn., in urine, ion-exchange - paper chrom. - radiom., 385.
Glycerides, analysis of mixtures of, by TLC, 3058.
detmn., by reaction with ethanolamine, volum., 535.
di-, synthetic, analysis, by GLC - mass spectrom., as trimethylsilyl ethers, 258.
mono-, identn. in presence of alkyl ethers, by GLC as trimethylsilyl deriv., 1581.
tri-, analysis, in seed fat of *Ephedra*, by TLC and GLC, 533.
  detmn., in blood serum, by TLC and GLC of methyl esters, 2301.
Glycerol, detmn., amperom., 2371.
  fluorim., 242.
  in beverages, in presence of sorbitol, mannitol, invert sugar and butane-2,3-diol, by TLC - fluorim., 3042.
  in presence of oil or fat, fluorim., 242.
sepn. from butanetriols, by distillation, 3503P.
  from ribitol and anhydroribitol, by GLC or TLC as trimethylsilyl deriv., 3645.
Glycerol esters, with lactic acid, mass spectrometry of, 1455.
Glycerol ethers, alk-1-enyl and alkyl, detmn., in lipids and phospholipids, by TLC, 403.
Glycerol nitrates, ^{14}C-labelled, detmn., by TLC and autoradiography, 3630.
Glycine, detmn., cerim., 2324.
  fluorim., 1054.
sepn. from glutamine, by TLC, thermal, 1053.
—, NN-dimethyl-, identn., in mixtures with choline, betaine aldehyde and betaine, chrom., 3689.
Glycol ethers, detmn., in presence of glycols, by GLC, 2791.
Glycols. (See also *Diethylene glycol; Ethanediol.*)
analysis of mixtures of C_4 to C_{10} aliphatic, with C_9 to C_{15} alcohols, by GLC, 3502.
detmn., by acetylation, 2164.
  by GLC, 2791.
  of acidity constants of polyesters with dicarboxylic acids, non-aq. potentiom., 2846.
sepn., by GLC, 2162, 3501.
Glycoproteins, detmn., electroph. on cellulose acetate strip - photom., 2942.
  of carbohydrates in hydrolysates of, by TLC, 2898.
  of neutral sugars in, ion-exchange - gas chrom., 1624.

Glycosides. (See also *Cardiac glycosides.*)
  cyano-, detection on thin-layer or paper chromatograms, spray reagent for, 1573.
  identn., in *Salix* spp., by GLC as trimethylsilyl ethers, 3650.
Gold, anion-exchange behaviour of, in HCl - org. solvent media, 40.
  detmn., amperom., 1355.
    anodic-stripping voltamm., 1354.
    by isotope dilution and rate of evaporation from solid surfaces, 3283.
    by neutron activation and reduction on mercury, 2601.
    by solvent extraction - spectroph., 1997.
    gravim., 742, 1352.
    in copper, atomic-absorption spectroph., 2599.
    in cyanide soln., by solvent extraction - atomic-absorption spectroph., 1356.
    in electroplating soln., photom., 2000.
      spectroph., 2600.
    in indium, spectroph., 3354.
    in In alloys, spectroph., 2600.
    in minerals, ores or rocks, atomic-absorption spectroph., 743, 2598.
      by neutron activation, 2568.
      by pre-concn. by cupellation and neutron activation, 1999, 3330.
      fluorim., 1998.
    in natural water, by concn. by ion-exchange chromatography and neutron activation, 566
    in platinum, simult. with Ir, Os and Ru, by neutron activation, 2758.
    of Au^{III}, by catalytic reaction, 1353.
    of protein-bound, in blood serum, by gel filtration - neutron activation, 2855.
    simult. with Pd, Pt and Rh, atomic-absorption spectroph., 1974.
    volum., 742.
  selective adsorption of, on copolymers, 1967.
  sepn. of Au^{3+} from other cations, paper chrom., 711.
  solvent extraction of Au^{3+} from acid soln., 706.
Gold, reagents for, bis(2-hydroxyethyl)dithiocarbamic acid, K salt, 2600.
  crystal violet, 2000.
  di-2-thienyl ketoxime, 1352.
  Rhodamine B, 1998, 3354.
  2-thenoyltrifluoroacetone, 1997.
Gonadotrophin, chorionic, detmn., in urine, volum., 3714P.
Gossypol, detmn., in cottonseed meal and oil, spectroph., 1790.
Grape must, identn, of muscat aroma in, by GLC - spectroph., 3075.
Grapes, detmn. of organophosphorus pesticides in, by GLC of hydrolytic products, 2407.
  identn. of anthocyanins in, by TLC, 3074.
    of varieties of, by anthocyanins, paper chrom., 3040.
  sepn. of anthocyanins of, by TLC, 1072.
Graphite, detmn. of Ti and V in, spectrogr., 1386.
Grass, detmn. of fenthion in, in presence of its metabolites, by solvent extraction - column - gas chrom., 2409.
    of S in, polarogr., as SO_4^{2-}, 1789.
Grignard reagents, detmn., by thermometric titration, 1464.
Griseofulvin, detmn., in fermentation broth, iodim., 1119.
Groundnuts, analysis of gases evolved during roasting process, by GLC, 3807.
Guanidine, 1,3-diphenyl-, detmn. of Cu, Fe and Mn in, spectroph., 2851.
Guanine, detmn., paper chrom. or electroph. - spectroph., 2956.
Guanosine, detmn., in pharm. prep., in presence o other nucleosides, paper chrom. or electroph. spectroph., 1147.
Gypsum, detmn., in solonetzic soil, by X-ray diffraction, 2416.

H

HEOD, ^{14}C-labelled, extraction from biol. tissues comparison of methods for, 1556.
HMX. (See 1,3,5,7-*Tetrazocine, octahydro*-1,3,5,7 *tetranitro-*.)
Haematology, prepn. of particle-free soln. for auto mated, 3920.
Haemin, sepn. from porphyrins and lipids, by TL as methyl esters, 2949.
Haemoglobin, detmn., evaluation of results obtaine with frozen Drabkin reagents, 2948.
  of A_2, comparison of methods for, 1626.
    gel electroph. - radiom. or spectroph., 2336
  of Fe combined as, in blood, spectroph., 365.
Hafnium, concn. of, on pyrogallol - formaldehyd resin, 3276.
  detmn., gravim., 1972.
    in zirconium, by ion exchange - X-ray spec trogr., 2681.
      by isotope dilution, 2682.
    of Zr in, by ion exchange - X-ray spectrogr. 2681.
Hafnium, reagent for, salicylfluorone, 1972.
Hafnium carbide, detmn. of free C in, by combustion 3377.
Hail, detmn. of Ag in, by neutron activation, 312
Hair dyes, identn. of amines in, by TLC, 316.
Halides, detmn., gravim., 3279.
Halogens, detmn., in hydrocarbons, by O-flas combustion, 2146.
    spectrogr., dependence of line intensities o conditions in, 3308.
Hand lotions. (See under *Cosmetics.*)
Haptoglobin, detmn., in blood serum, electroph. densitom., 432.
    spectroph., 1078.
Harman, detmn., on TLC plates, spectrofluorim 462.
Harman alkaloids. (See Peganum harmala.)
Hashish. (See *Cannabis.*)
Hay, detmn. of lignin and cellulose in, 3108.
  solvent extraction of DDT from, 3057.
Helium, detmn. of Ar and Ne in, atomic-absorptio spectroph., 1343.
    of CO_2 in, by GLC, 605.
    of methane in, by mol. sieve at −196°, 715.
Hemicellulose, analysis, in tobacco stems, chrom 3649.
Heparin, detmn., discrepancies between differen methods, 1668.
  differentiation between natural and desulphate product, by gel filtration, 1572.
  electrophoresis of commercial products in agaros gel on microscope slide, 1571.
  gel-filtration behaviour of, 376.
Heptachlor, detmn., in formulations, by GLC, 180
  solvent extraction of, from soil, effect of H_2O in 1797.
Hepta-2,5-dien-4-one, 2,6-bis(phenethylamino)-, detmn., in presence of 2,6-dimethyi-1-phen ethyl-4-pyridone, spectroph., 1473.
Heptane, identn. of products of catalytic heating o by GLC, 3495.
Herbicides, detmn., in natural water, by GLC, 387
  in soil, by GLC, as bromo- or chloro-methy dimethylsilyl deriv., 2430.

rbicides, determination—*continued*
  of triazine deriv., by TLC - reflectance spectroph., 1794.
  GLC of substituted urea compounds, 3849.
  sepn. and identn., in mixtures with organochlorine pesticides, by two-dimensional TLC, 3852.
rring oil, detmn. of As in phospholipids of, by neutron activation, 1547.
speridin methyl chalcone, detmn., in mixtures with quercetin and rutin, column chrom. - spectroph., 470.
speritin, detmn., absorptiom., 1126.
xachlorophane, detection, in ethanolic extracts of skin, by GLC, 2382.
  detmn., gravim., by reaction with 1-fluoro-2,4-dinitrobenzene, 2381.
  in presence of phenols, photom., 1501.
xacyanoferrate(II). (See *Ferrocyanide.*)
xafluorosilicic acid. (See *Hydrogen hexafluorosilicate.*)
xane, 2,5-bis(methanesulphonyloxy)-, sepn. from other biol. alkylating agents, by TLC, 493.
xitols, detmn., in confectionery, in presence of sugars, ion-exchange chrom., automated, 3795.
  sepn., electroph., as molybdate complexes, 378
xobarbitone, detmn., in barbiturate mixtures, by preparative TLC - volum., 2371.
  identn., in urine, by TLC, 3623.
  sepn. from other barbiturates or thiobarbiturates, by TLC, 1127.
xosamines, detmn., spectroph., 1569.
  sepn., electroph., as molybdate complexes, 378.
  in mixtures with amino-acids, ion-exchange chrom. - spectroph., 418.
xuronic acid, deriv. of, sepn., electroph., as molybdate complexes, 378.
ppuric acid, *p*-amino-, detmn., in commercial prep., ion-exchange chrom., 3005.
stamine, detection, on paper chromatograms, fluorescence spectroph., 3693.
  sepn. from 1-methylhistamine, by TLC, 414.
stidine, detection, on paper chromatograms, fluorescence spectroph., 3693.
  electrophoresis of Cu^{II} chelate of, in presence of Cu^{II} chelates of other amino-acids, 1058.
  sepn. from arginine and lysine, as Hg^{II} complexes and detmn., photom., 1057.
stones, isolation of arginine-rich, ion-exchange chrom., recycling apparatus for, 2944.
  starch-gel electroph., 423, 1623.
lmium, detmn., in tungsten bronze, by neutron activation, 847.
omopantothenic acid, detmn., in pharm. prep., spectroph. or chrom., 3691.
omogentisic acid. (See *Acetic acid, 2,5-dihydroxyphenyl-,*)
omovanillic acid, (See *Acetic acid, 4-hydroxy-3-methoxyphenyl-,*)
oney, detmn. of tutin and hyenanchin in, comparison of methods for, 2399.
op extracts, analysis, E.B.C. standard for, 1759, 1760, 1761.
  detmn. of bittering components in, by E.B.C. methods, 3067.
  of dichloromethane in, by GLC, 3815.
ops, analysis, E.B.C. recommendations for standardisation of, 1759, 1760, 3066.
  detmn. of alpha-acids in, conductim., semi-automated, 3814.
  isolation of tannins from, 1766.
  sepn. of resin acids of, by GLC, as butaneboronate esters, 3068.
Hormones, steroidal, (See also under *Steroids.*)
  sepn., by GLC, silylating agent for, 1313C.
Humus, detmn., in soil, volum., 3099.
  of fulvic acids in, conductim. or potentiom., 3840.
Hydantoin, 5-(*p*-hydroxyphenyl)-5-phenyl-, detmn., in urine, by TLC - spectroph., 371.
Hydrargillite, differential thermal properties of, 762.
Hydrastine, detmn., in *Hydrastis canadensis*, paper chrom. - fluorim., 1667.
Hydrastinine, detmn., in *Hydrastis canadensis*, paper chrom. - fluorim., 1667.
Hydrazine, detection, in gases, colour reaction for, 3862P.
  in presence of hydroxylamine, 3401.
  detmn., photom., 1398.
—, **alkyl-,** identn., 261.
  with ion-exchange resin grains, 1456.
—, **1,1-dialkyl-,** detmn., spectroph., 2799.,
—, **1,2-dialkyl-,** detmn., photom., 2798.
—, **1,1-dimethyl-,** detection, in gases, colour reaction for, 3862P.
Hydrazine derivatives, alkyl-, detection, in gases, colour reaction for, 3862P.
  asymmetric, sepn. as 2-hydroxy-5-nitrobenzylidene deriv., by GLC, 907.
  detection, in presence of hydroxylamine, 3401.
Hydrazine gels, analysis of gas bubbles in, by GLC, 2684.
Hydrazine sulphate, detmn., amperom., 3269.
Hydrazo compounds, detmn., photom., 2798.
Hydrocarbons. (See also *Alkanes; Olefins; Paraffins.*)
  aliphatic, H-atom transfer in mass-spectrometric fragmentation patterns of, 3496.
  analysis of mixtures of, by time-of-flight mass spectrometry - open-tube GLC, 1447.
  aromatic, GLC of, interpretation of results in, 2461.
  TLC of, 2213.
  C_1 to C_5, analysis, by GLC, 229.
  C_1 to C_{12}, detmn., in car exhaust gases, by GLC, 1817.
  C_2 to C_5, GLC of, comparison of H and He as carrier gases in, 2463.
  C_3 to C_{16}, temp.-programmed GLC of mixtures of, 3562.
  C_{12} to C_{22}, sepn., by temp.-gradient GLC, 1241.
  detmn. of halogens and S in, by O-flask combustion, 2146.
  of S in, by hydrolysis and hydrogenation, 1491.
  GLC of, effect of electrolytes on, 892.
  GSC of, correlation of aromatic substituent effects in, 2186.
  sepn., by GLC, with elution with acetonitrile, 1446.
—, **chloro-,** detection, in air, ionisation analyser for, 564.
—, **fluoro-,** sepn., by GLC, 2787.
Hydrocarbons, isoprenoid, detmn., in shark-liver oil, by GLC - mass spectrom., 536.
Hydrocarbons, polycyclic, analysis of mixtures of, i.r. and u.v. spectroph., 2806.
  detmn., fluorim., 3554.
  in oils and fats, by TLC - u.v. spectroph., 3829.
  low-temp. luminescence of carcinogenic, and sepn. by TLC, 3553.
  sepn., by TLC, 291.
Hydrochloric acid, detection, in air, cell and procedure for, 2432.
  detmn. of Fe^{III} in, by adsorption - photom., 2097.
Hydrocortisone, (*cortisol*), detmn., in blood plasma, column - thin-layer chrom. - fluorim., 3679.
  fluorim., elimination of interference in, 1042.
  of ^3H-labelled, in urine, by Few's method, 2886.

Hydrocortisone,—*continued*
  sepn., from related steroids by TLC, solvent systems for, 1142.
    from urine, ion-exchange chrom., 1032.
  ^{3}H-labelled, detmn., in urine, by liquid-scintillation counting, 1040.
—, tetrahydro-, detmn., in urine, paper chrom., 1595.
Hydrocyanic acid, detmn., in aq. soln., by GLC, 3125.
Hydrofluoric acid, detmn., in stainless-steel pickling baths, spectroph., 2119.
  distillation column for production of anhydrous, 3913.
  sepn. from F, HCl and ClF$_3$, by GSC, use of synthetic diamond as stationary phase in, 160.
Hydrogen. (See also *Deuterium; Tritium.*)
  detmn., in metals, apparatus for, 3909.
    of methane in, by mol. sieve at −196°, 715.
Hydrogen hexafluorosilicate, detmn., potentiom., 3380.
Hydrogen peroxide, detmn., amperom., 722, 3269, 3270.
    by decolorisation of indigocarmine, 43.
    by use of XeO$_3$, 3315.
    chronophotom., 721, 3316.
    in presence of Fe^{III}, iodim., 720.
Hydrogen sulphide, detmn., in air, in presence of other S-containing gases, by membrane filtration and micro-coulom. detection, 1196.
    of dissolved, in natural water, test strip for, 3867P.
  sepn. from Ar, CO, CO$_2$, O and SO$_2$, by GLC, 3305.
Hydroperoxides, detmn., in oxidation products of olefins, 232.
Hydroxy-compounds. (See *Alcohols; Polyols.*)
Hydroxylamine, detmn., spectroph., 264.
—, diethyl-, sepn. from related compounds, by TLC, 3828.
Hydroxylapatite, detmn. of Ca and P in, complexom., 749.
    and Sr in, 1333.
Hydroxyl-groups, detection of adjacent by reaction with IO$_4^-$, 887.
  detmn., in carbohydrates, by transesterification with alkyl borates, 2792.
    of adjacent, by digestion with HI, 1443.
      volum., 1443.
Hyenanchin, detmn., in honey, in presence of tutin, comparison of methods for, 2399.
Hygromycin B, detmn., spectroph. or colorim., 3749.
Hypochlorous acid, detmn., potentiom., 2727.
Hypophosphite, detmn., sequentially with PO$_3^{3-}$, volum., 126.
Hypoxanthine, detmn., in biol. fluids, simult. with xanthine, enzymic - spectroph., 2337.
    in blood plasma, in presence of uric acid and xanthine, by TLC, 1080.

I

Ice cream, detmn. of wt. per unit vol. of packaged, 3037.
Imidazoles, sepn. from each other and from histidine, by TLC, 2327.
    from indoles, in biol. tissues, by TLC, 414.
Imipramine, detmn., in autopsy materials, spectroph., 2284.
    in pharm. prep., colorim., comparison of methods for, 1698.
    on paper chromatograms, spectroph., 1553.
  identn., microscopic, 1701.
Immunoglobin G, detmn., in blood serum, simul with transferrin, paper electroph. - spectroph 3715.
Indane-1,3-dione, 2-amino-2-phenyl-, detmn., pola ogr., 2816.
Indicators, (*general and miscellaneous*) chromotrop acid, Na salt, for mercurim. titrations, 2726.
  for conductim. titrations, 1926.
Indicators, acid-base, 5*H*-benzo[*a*]phenoxazine, 5 benzo[*a*]phenoxazin-5-one and 9*H*-benzo[phenoxazin-9-one deriv. as, 2541.
  benzo[*a*]phenoxazinones as, 1319.
  1-benzyl-3-hydroxy-3-pyrrolin-2-one deriv. 2540.
  Chromotrope 2B as, 684.
  Meldola blue as, 2541.
  nitroarylthiosemicarbazides as, 686.
  study of bromocresol green - methyl red mixtur as, 8.
Indicators, fluorescent, 4-methylumbelliferone 685.
Indicators, metallochromic, Acid chrome dark blu as, 745.
  5-amino-2-[3-(1-methyl-2-piperidyl)-2-pyridyla phenol as, 726.
  azoimidazoles as, 1342.
  calcon as, 3335.
  Cal-red deriv. as, 3265.
  Eriochrome red B as, 756, 2630.
  gallein as, 2630, 3443.
  haematein as, 2542.
  haematoxylin as, 2542, 2630.
  6-hydroxy-5-[3-(1-methyl-2-piperidyl)-2-pyrid azo]naphthalene-2-sulphonic acid as, 2692.
  metalphthalein as, 2666.
  N-methylanabasine-α′-azo-*p*-cresol [see *3-(1-methyl-2-piperidyl)-2-pyridylazo-*p*-cresol*]
  3-(1-methyl-2-piperidyl)-2-pyridylazo-*p*-cresol, 2025,3366.
  purity control of, 2153.
  2-(2-pyridylazo)-*p*-cresol as, 2631.
  sulphosalicylic acid as, 2626, 2717.
  Victoria violet as, 2001.
Indicators, metallofluorescent, morin as, 2552.
Indicators, redox, applications of, review, 3264.
  cacotheline as, for V^{3+}, 2694.
  2,6-dichlorophenolindophenol as, 1093.
  diphenylbenzidine as, for V^{3+}, 2694.
  gallocyanine as, for V^{3+}, 2694.
  methylene blue as, for V^{3+}, 2694.
  molybdovanadophosphoric acid as, for Sb^{3+}, 26
  neutral red as, 2199.
  phenosafranine as, 2199.
  N-phenylanthranilic acid as, 199, 2633, 2694.
  Safranine T as, 2199.
  Variamine blue B as, 996.
Indium, detmn., anodic-stripping voltamm., fluence of contact-electrode metal on, 7
    complexom., 2630, 2631.
    fluorim., 1369.
    gravim., 2020.
    in copper ores, by neutron activation, 3328.
    in presence of Ga, complexom., 2552.
    of impurities in, by solvent extraction - sp troph., 3354.
    photom., 1369, 1370, 2627, 3300.
    volum., 2629.
  sepn. from Ga, by pptn. as hydroxide, 80.
  solvent extraction of, from H$_2$SO$_4$ soln., by h mol.-wt. amines, 2632.
    with hexanoic acid, 769.
Indium, reagents for, Janus green, 1370.
  pyronine G, 1369.
  xylenol orange, 2627, 3301.

lium alloys, detmn. of Au in, spectroph., 2600.
lium arsenide, detmn. of impurities in, by neutron activation, 3355.
    of Si and Zn in, spectrogr., 2021.
lium(III) oxide fluoride, detmn. of F in, by reaction with silicon, 2719.
lole, amino-deriv. of, detection, on paper or thin-layer chromatograms, by heating with paraformaldehyde, 2316.
  deriv. of, sepn., by TLC, 414.
      column - thin-layer chrom., 413.
      from imidazoles, in biol. tissues, by TLC, 414.
  detmn., in natural water, by GLC, 3874.
, 4,5,6,7-tetrahydro-, detmn., non-aq. potentiom., 3557.
dustrial wastes, analysis, bibliographical review (1967), 3131.
    comparison of methods for, 3889.
  detmn. of Be in, direct-reading spectrometer for, 580.
    of caprolactam in, by TLC, 3892.
    of chlorobenzene and trichlorophenol in, by solvent extraction - GLC, 3890.
    of inorg. C in, as CO_2, analyser for, 3885P.
    of melamine in, turbidim. or iodim., 1830.
    of nitro-compounds in, polarogr., 3891.
organic salts. (See *Metal salts.*)
osine, detmn., in pharm. prep., in presence of adenosine, guanosine, cytidine and uridine, paper chrom. or electroph. - spectroph., 1147.
    in presence of nicotinamide and uridine 5′-phosphate, thin-layer - ion-exchange chrom. - spectroph., 2958.
  identn., in tissue-lipid extracts, 440.
ositol pentaphosphate, sepn. of isomers of, electroph., apparatus for moving-paper technique, 1017.
sulin, detmn. of terminal amino-acids in, by TLC - spectroph., 1607.
  sepn. from blood plasma, molecular-sieve-coated adsorbent for, 3605P.
    from glucagon, gel electroph., 1068.
ulin, detmn., in blood serum and urine, automated, 3647.
    in *Solidago* root, paper - thin-layer chrom. - colorim., 3648.
vert sugar, detmn., in beverages, in presence of sorbitol, mannitol, glycerol and butane-2,3-diol, by TLC - fluorim., 3042.
    in raw cane-sugar juice, amperom., 3790.
date, detmn., in presence of IO_4^-, volum., 1414.
dide, detmn., amperom., 3271.
    by impedance titration, 668.
    in presence of Cl^- and Br^-, polarogr., 1413.
    potentiom., 3435.
  voltammetry of I_2 - I^+ and I_2 - I^- systems, 2100.
dine, detmn., by chemiluminescence of luminol compound, 2730.
    by solvent extraction - atomic-absorption spectroph., 2101.
    of butanol-extractable, by ceric oxidation, extraction filter for, 2331.
    of hormonal, in blood serum, in presence of exogenous I, ion-exchange chrom. and $HClO_3$ digestion, 997.
    of ^{125}I on thin-layer chromatograms, 2456.
    of ^{130}I, reactions induced by isomeric transitions in, 3436.
    of ^{131}I in urine, as I^-, gravim. and radiom. 2879.
    of protein-bound, by neutron activation, 1C.
      in blood serum, automated, removal of I^- in, 2945.
  voltammetry of I_2 - I^+ and I_2 - I^- systems, 2100.
odine(I) chloride, voltammetry of, 2100.
Iodofenphos, detmn., in milk, in presence of 2,5-dichloro-4-iodophenol, column - gas chrom., 1167.
Ion exchange, 1968 annual reviews, 677, 1948.
  prepn. of capillaries for, 1261.
  use of org. solvents in, review, 1881.
Ion-exchange materials, amine - Co^{II} ferrocyanide compounds as, 2476.
  analysis, by pyrolysis - GLC, 3179.
  influence of particle size of, 1880.
    of structure of bipolar on sepn. of mixtures of electrolytes and non-electrolytes, 1262.
  i.r. spectra of, 1879.
  inorg. synthetic, 622, 247
  Lewatit S 100 as, 497.
  liquid anion-, applications in inorg. TLC, 1968.
  mercurated styrene - divinylbenzene copolymers as, 2474.
  polymeric oligomethylene cobalticinium cation as, 623.
  prepn. of methylated and lipophilic Sephadex for, 3971.
  properties of di-π-cyclopentadienylcobalt^{III} cations as, 3972.
  review of developments in, 3970.
  swelling and splitting of, in non-aq. media, 1260.
  use of, as microchemical standards, based on Na content, 1345.
Iothalamic acid, sepn. from other iodine-containing X-ray contrast media, by GLC, as trimethylsilyl deriv., 3703.
Ipronal, detection of decomposition products of, by TLC, 1683.
  detmn., in substance or tablets, non-aq. volum., 1128.
    volum., 3759.
  identn., i.r. spectroph., 1680.
Iridium. (See also *Platinum-group metals.*)
  detmn., in marine sediments, in presence of Os, by neutron activation, 3129.
    in minerals, ores or rocks, by neutron activation, 2568.
    in platinum, simult. with Au, Os and Ru, by neutron activation, 2758.
    of Ir^{III}, volum., 199.
  solvent extraction of Ir^{IV} from acid soln., 706.
Iron, adsorption of Fe^{3+} from HCl or $AlCl_3$ soln., by tributyl phosphate, 2097.
  analysis, atomic-absorption spectroph., review, 860.
  detection of Fe^{2+}, ring test for, 2732.
    spot test for, 2105.
  detmn., by adsorption on cellulose - spectroph., 1416.
    complexom., 3443.
    in Sb - Fe catalysts, photom., 817.
    in beer, in presence of Co and Ni, spectroph., 3070.
    in blood, spectroph., 2880.
      and biol. tissues, semi-quant., by circular TLC, 2881.
    in blood serum, atomic-absorption spectroph., 1313C.
      spectroph., automated, 2278.
    in cadmium, spectroph., 66.
    in coal, by neutron activation, 1430.
    in fats and fatty oils, atomic-absorption spectroph., 2535C.
      spectroph., 1778.
    in ferrites, in presence of Al and Ni, complexom., 173.
    in fertilisers, atomic-absorption spectroph., 3105.
    in ilmenite, photom., 1418.
    in indium, by solvent extraction - spectroph., 3354.

Iron, determination—*continued*
  in minerals, ores or rocks, amperom., 3384.
    potentiom., 1392.
  in multi-vitamin products, X-ray spectrogr., 1123.
  in presence of Al and Ti, paper chrom., 804.
    of Co, Cu, and Ni, by solvent-extraction as picolinaldehyde 2-quinolylhydrazone complexes by TLC, 2566.
    of Cr, Ni and V, by ion exchange, 3310.
    of Fe oxides, comparison of methods for, 174.
    of Ni^{II}, by solvent extraction - spectroph., 172.
  in silicones, photom., 2253.
  in soil, atomic-absorption spectroph. or colorim., 542.
    spectroph., 3098.
  in zinc, spectroph., 66.
  of C, P and S in, spectrogr., 184.
  of Ce in, X-ray spectrogr., 2738.
  of Cr, Cu and Mn in, atomic-absorption spectroph., 861.
  of Cr, Ni, P and Si in, photom., 1422.
  of corrosion of, by Mössbauer effect, 1419.
  of gases in, by vacuum fusion, 2109.
  of haemoglobin-, in blood, spectroph., 365.
  of H in, by vacuum at room temp., 2109.
  of Fe^{II}, amperom., 3271.
    in chromite ores, amperom., 2737.
    in glass, volum., 110.
    in HCl soln., volum., 1417.
    in minerals, ores or rocks, volum., 110, 858.
    in presence of Cl^- and/or Na, photom., 857.
    potentiom., 2587.
  of Fe^{III}, by solvent extraction - spectroph., 170, 171, 2567.
    chronophotom., 2106.
    in presence of Mo^{VI} and U^{VI}, by h.f. titration, as complex with cupferron, 1339.
    photom., 169, 854, 2734.
    spectroph., 855, 856, 2735, 2736, 3444.
    volum., as arsenate, 1335.
  of ^{55}Fe and ^{59}Fe in, A.E.R.E. procedures for, 979.
  of Pb and Zn in, polarogr., 180, 2113.
  of metallic, in minerals, ores or rocks, atomic-absorption spectroph., 859.
  of Mo in, spectrogr., 2117.
  of P and S in, by neutron activation, 2702.
  of protein-bound, in blood, by gel filtration - radiom., 2854.
  of Si in, by thermo-e.m.f., 2112.
  of Te in, atomic-absorption spectroph., 2743.
  of Sn in, spectroph., or complexom., 2740.
  polarogr., 33.
    as 8-hydroxyquinolinate, co-pptn with 2-phenylphenol in, 168.
    by solvent extraction of ferroin perchlorate, 167.
    with 1,10-phenanthroline, by formation of dye complexes, 1415.
 sepn. and detmn. of metallic Fe, FeO and Fe_2O_3 in ores or slags, 3448.
   from biol. material, molecular-sieve-coated adsorbent for, 3605P.
   from Hg, as foam, effect of HCl concn. on distribution factors, 853.
   from other metals, by TLC, 1416.
     ion-exchange chrom., in malonate media, 2560.
   of Fe^{II} from Fe^{III}, by TLC, 171.
     paper chrom., 1985.
       - electroph., 3447.

Iron, separation—*continued*
    of Fe^{III} from Al and Ti^{IV}, paper chrom., 711.
      from Cr^{III}, electroph., 2548.
  solvent extraction of, as benzeneseleninate, 2031
    of Fe^{II} - 2-thenoyltrifluoroacetone complex
      effect of pyridine bases on, 3446.
  sorption of Fe^{3+} on a silica column., study of, 39
Iron, cast, detmn., of Al, Bi and B in, spectrogr., 2115.
    of Sb in, spectrogr., 3459.
Iron, reagents for, 4-bromo-3-hydroxy-2-naphthoi acid, 855.
  5-bromo-8-hydroxyquinoline-7-sulphonic acid, 2735.
  crystal violet, 170.
  2′,4′-dihydroxybutyrophenone, 3444.
  4,7-diphenyl-1,10-phenanthroline, 2278, 2880.
  furoin α-oxime, 854.
  2′-hydroxybutyrophenone oxime, 856.
  3-hydroxy-1-nitro-2-naphthoic acid, 855.
  8-hydroxyquinoline, 168, 172.
  4-methoxybenzothiohydroxamic acid, 2567.
  methylthymol blue, 2736.
  nitroso-R salt, 3098.
  1,10-phenanthroline, 66.
  phenazine deriv., 3445.
  prolinethymol blue, 2419.
  pyridine-2,3-diol, 2734.
  1-(2-pyridylazo)-2-naphthol, 3070.
  pyrrolidine-1-carbodithioic acid, morpholiniun salt, 171, 1416, 2745.
  quinoxaline deriv., 3445.
  sulphosalicylic acid, 1418.
  2-thiobarbituric acid, 169.
  2,4,6-tripyridyl-1,3,5-triazine, 2278.
Iron alloys, detmn. of Al in, spectroph., 2111.
Iron compounds, chloro-complexes of Fe^{III}, adsorption of, by Dowex A-1, 2559.
  of Fe^{II} with 1-(2-pyridylazo)-2-naphthol, TL of, 25.
  sepn. of $^{59}Fe^{II}$ from $^{59}Fe^{III}$, after neutron activation of, 2733.
Iron(III) fluoride, detmn. of F in, by reaction wit silicon, 2719.
Iron ores, analysis of silicates in, spectrogr., 345 spectrogr., 3450.
  detmn. of metallic Fe, FeO and Fe_2O_3 in, 3448
    of P and Si in, spectroph., 2065.
Iron(III) oxide fluoride, detmn. of F in, by reactio with silicon, 2719.
Iron oxides, detmn., in slimes in alumina production spectrogr., 764.
— **Fe_2O_3,** detmn. of Mn in, spectrogr., 2108.
    of Zn in, by solvent extraction - spectroph 3449.
Iron(II) sulphide, detmn., in soil, in presence Fe_2O_3, volum., as H_2S, 3839.
Isoamyl alcohol. (See *Isopentyl alcohol.*)
Isobutyl alcohol, detmn., in potable spirits, simul with propanol and isopentyl alcohol, by GLC 3077.
Isocarboxazid, detection, in urine, 1313C.
  identn., by TLC, 486.
Isocyanic acid, methyl ester, detmn., in presence CCl_4, by GLC, 2179.
Isoniazid, analysis of tablets containing 4-amin salicylic acid, volum., 3774.
  detmn., in biol. materials, in presence of isonic tinic acid, cationite-paper chrom., 1139.
Isonicotinic acid, detection, 934.
  detmn., in biol. materials, in presence of isoniazid cationite-paper chrom., 1139.
    in oxidation products of 3-picoline, by GLC 932.

opentyl alcohol, detmn., in potable spirits, simult. with propanol and isobutyl alcohol, by GLC, 3077.
ophytol, detmn., in the technical product, by TLC, 3653.
oprenaline, detmn., in aerosol prep., by TLC - colorim., 1136.
oproterenol. (See *Isoprenaline*.)
oquinoline, deriv. of, detmn., volum., 1482.
-, 3,4-dihydro-6,7-dimethoxy-, detmn., volum., 1482.
otachysterol, sepn. of isomers of, by GLC, 2991.
othiocyanic acid, 4-hydroxybenzyl ester, detmn., in mustard, enzymic - spectroph., 1788.
otopes. (See also *Radioisotopes*.)
  sepn. of, physical methods for, 3273.
oxsuprine, detmn., in pharm. tablets, spectroph., automated, 1137.
tizin, detection, in rhubarb extracts, by TLC, 2360.
obarbitone, identn., by TLC, 1679, 2369.

K

anamycin, sepn. from other tuberculostatic antibiotics and identn., by TLC, 3750.
aolin, detmn. of SiO$_2$ in, by distillation of SiF$_4$, 3381.
atharometers, sensitivity of thermistor-type, 3904.
erosine, detmn. of smoke point of, B.S.I. method for, 1490.
etals, detmn., in presence of ketones, 247.
etone, ethyl methyl. (For deriv. see *Propan-2-one*.)
-, isobutyl methyl, analysis of mixtures with acetone, by phase titration, 3511.
-, methyl 4-pyridyl, thiosemicarbazone, detmn., gravim. or spectroph., 2390.
etones, aliphatic, high-mol. wt., GLC of, 2171.
  detmn., in blood, spectroph., 396.
    in presence of ketals, 247.
    polarogr., in phenol medium, 2193.
  sepn. from cyclic alcohols, by GLC, 3534.
etoximes, alkyl styryl, NMR spectra of, 3543.
hellin, detmn., in *Ammi visnaga* fruits, by TLC - spectroph., 465.
inetic methods, analogue computer for, 1236.
rebs-cycle acids. (See *Carboxylic acids, citric acid cycle*.)
ynurenic acid, ^{14}C-labelled, detmn., in urine, in presence of xanthurenic acid, ion-exchange chrom. - fluorim. or radiom., 1063.
ynurenine, 5-hydroxy-, detmn., in urine, ion-exchange - paper chrom. - spectroph., 420.

L

aboratory apparatus. (With the exception of the items included here most references will be found under the techniques to which they are applied, e.g. Balances under *Weighing*.)
  automatic washer for micro-Kjeldahl flasks, 3134.
  burettes, piston-type, 3899P.
  clock-driven dry aspirator, 594.
  controlled-temp. cold trap, 3916.
  device for constant pressure, 3142.
    for transfer of known volume of liquid, 3139P.
  filter-flasks, B.S.I. specification for, 581.
  flow-sensitive switch for cooling-water circuit, 3141.
  lipid contamination of solvents or air by polypropylene used in, 10.
  micro 'cold-finger' trap, 1217.
  pipettes, automatic, 3897P.
    disposable tips for, 3898P.
    precision of micro-, 3138.
  portable modular racks for, 3132.
  shaker for separating funnels, 3133.
Lactams, detmn. of salts of, potentiom., 961.
Lactic acid, detmn., in blood, enzymic - spectroph., 387, 1577.
    in presence of other org. acids, by temp.-programmed GLC, as methoximes, 3656
  of methanol in, by vacuum distillation, 2175.
—, 4-hydroxyphenyl-, sepn. from related compounds, gel-chrom., - fluorim., 1599.
Lactic acid, ethyl ester, detmn., by GLC, 382.
Lactose, detmn., in milk bread, 1151.
Laevulic acid, 5-amino-, detmn., in urine, storage of samples for, 2950.
Lanthanides. (See also *Rare-earth metals*.)
  sepn., by ion exchange, 3362.
Lanthanum, detmn., conductim., as metaborate, 2024.
    in Ti oxide, by neutron activation, 1395.
    in tungsten bronze, by neutron activation, 847.
    volum., 1377.
  sepn., from Am and Ce, paper chrom., synergism in, 1385.
    from U, paper electroph., 2, 2641.
  solvent extraction of, as benzeneseleninate, 2031.
Lanthanum, reagent for, rhodizonic acid, Na salt, 1377.
Lanthanum aluminate, detmn. of Al in solid soln. with Ca titanate, photom., 767.
Lanthanum fluoride, detection of Nd or Pr in, X-ray spectrogr., 1378.
Lard, analysis of fatty acids of, by GLC of methyl esters, 3024.
Lasiocarpine, detmn., spectroph., solvent and temp. effects in, 2356.
Lauryl sodium sulphate. (See *Dodecyl sodium sulphate*.)
Lead, concn. of, in rocks or soils, by ion exchange, 3479.
  detmn., a.c. polarogr., 1970.
    anodic-stripping voltamm., 2636.
    by luminescence spectra, 3301.
    by neutron activation, 3292.
    complexom., in non-aq. media, 707.
    in blood, atomic-absorption spectroph., 360, 989, 2869.
    in food, spectroph., after isolation by co-pptn. with SrSO$_4$, 1720.
    in iron and steel, polarogr., 2113.
    in minerals, ores or rocks, volum., 2673.
    in natural water, polarogr., 3870.
      test strip for, 3867P.
    in org. compounds, by combustion, 144.
    in phosphates, by solvent extraction - atomic-absorption spectroph., 2688.
    in phosphorite, anodic-stripping voltamm., 1399.
    in steel, photom., 865.
    in urine, atomic-absorption spectroph., 989.
    in wine, atomic-absorption spectroph., 3073.
    of ^{210}Pb in air and rain water, in presence of ^{7}Be, ^{32}P, ^{90}Sr and ^{210}Po, radiochem., 563.
    of ^{210}Po in, radiom., 2057.
    of oxides in, coulom., 2612.
    of Se in, by co-pptn. with PbSO$_4$ and spectroph., 145.
    of Sn in, spectroph., 798.
    polarogr., 2675.
    spectrofluorim., 2674.
    spectroph., 2056.
  electro-reduction of Pb^{II}, in molten NaNO$_3$ - KNO$_3$, 22.
  isotopic standards of, detmn. of abundance ratios of, 2055.
  sepn. from Mn or Zn, by solvent extraction with salicylaldoxime, 700.

Lead, separation—*continued*
of Au, Hg and Ag from, with reagent papers, 1966.
of ^{212}Pb from ^{212}Bi, column chrom., 31.
solvent extraction of, by bis(2-ethylhexyl) phosphate, 2676.
from HCl medium with tetrahexylammonium chloride in dichloroethane, 2556.
with thiothenoyltrifluoroacetone, 1973.
suppression of polarogr. maximum of, by aliphatic alcohols, 3302.
—, **tetraphenyl-,** sepn. from chlorophenyl compounds, by TLC, 2662.
Lead, reagents for, diethyldithiocarbamic acid, diethylammonium salt, 2688.
Na salt, 360.
tetramethylenedithiocarbamic acid, NH$_4$ salt, 2869.
Lead alkyls, sepn. from dichloro- and dibromoethane and toluene, by GLC, 2826.
Lead alloys. (See also *Solders.*)
detmn. of Cu and Pb in, complexom., 32.
of Pb in, complexom., masking of Cd, Ni and Zn in, 1393.
of Sn in Pb - Sb, photom., 2052.
spectroph., 798.
Lead telluride, detmn., potentiom., automated, 3424.
Leather, analysis, applications of automated methods in, 346.
detmn. of aldehydes in, by TLC, 1452, 2260.
study of chrome tanning of, by stratigraphic analysis, 2261.
Leaves. (See also *Plants.*)
isolation of protein from, by solvent extraction - electroph., 1614.
Lecithin, analysis of fatty acids of, by argentation TLC, 1027.
detmn., in biol. tissues, in presence of sphingomyelin, by TLC - i.r. spectroph., 2305.
in blood plasma, enzymic - spectroph., as choline, 3687.
sepn. from acylcarnitines and carnitine, in biol. tissues, column chrom. - radiom., 1050.
structural analysis of, by TLC and GLC, 400.
Lemon, detmn. of phenthoate in, colorim., 525.
Lemon oil, analysis, by GLC and i.r. spectrophotometry, 1165.
Leucine, detmn., cerim., 2326.
Levomepromazine, detmn., in urine, spectroph., 2995.
Librium. (See *Chlordiazepoxide.*)
Lignin, detmn., in feeding-stuffs, calorim., in sealed bomb, 3845.
in hay or straw, 3108.
of acid properties of, by h.f. titration, 321.
Limestone, detmn. of Ca in, complexom., 3335.
Linamarin, detection, on thin-layer or paper chromatograms, 1573.
Lincomycin, detmn., in soln., syrups or fermentation broth, by GLC, 1121.
Lindane. (See *Cyclohexane, hexachloro-.*)
Linoleic acid, sepn. and identn. of geometrical isomers of, by TLC and GLC, 3659.
Linolenic acid, sepn. and identn., of geometrical isomers of, by TLC and GLC, 3659.
Linseed oil, B.S.I. specification for, 337.
Lipids. (See also *Fats and fatty oils; Phospholipids Sphingolipids.*)
analysis, applications of i.r. spectrophotometry in, 2C.
by pyrolysis - GLC, 2166.
of saponification products of, from rat skin, by TLC, 3665.
review of spectroscopic methods for, 2C.
Lipids,—*continued*
detmn., by TLC of hydrogenated sample, 3666.
in biol. tissues and blood serum, by TLC - colorim. and volum., 1025.
in cereals, by azeotropic distillation, 3089.
in urine, by solvent extraction - TLC and GLC, 1580.
of alk-1-enyl and alkyl ethers of glycerol in, by TLC, 403.
of ^{14}C-labelled metabolites of, in urine, by TLC and scintillation counting, automated, 2302.
of P in bacterial, photom., 1584.
fractionation of, chrom., review of methods for, 398.
GLC of, 2C.
mass spectrometry of, 2C.
neuraminic acid-containing, TLC of, 402.
prepn. and analysis of labelled, review, 397.
sepn., column chrom., polystyrene beads unsatisfactory for, 3663.
from porphyrins and haemin, in erythrocytes, by TLC as methyl esters, 2949.
Lipoproteins, detmn., in blood serum, electroph., on cellulose acetate strip, 1582.
paper electroph. - photom., 2942.
identn., on electropherograms, staining technique for, 2946.
sepn., from blood serum, agarose-gel electroph. 428, 2947.
comparison with paper electrophoresis 429.
Liquids, sample-dispensing device for, automatic 1228P, 1230P.
Lithium, detmn., by α-particle excitation, 2576.
by neutron activation, 3292.
complexom., as KLiFe(IO$_6$), 3318.
coulom., in acetonitrile, 1965.
in bittern, fluorim., 577.
in blood serum, atomic-absorption spectroph. 2267.
and urine, atomic-absorption spectroph. 981, 982.
in diphenyltungsten - phenyl-lithium complex potentiom., 3527.
of ^{6}Li, by neutron activation, 723.
photom., 1977, 1978.
—, **butyl-,** detmn., by NMR - u.v. spectroph., 1514
—, **phenyl-,** detmn. of Li in complex with diphenyl tungsten, potentiom., 3527.
Lithium, reagents for, arsenazo III, 1978.
nitroanthranilazo, 1977.
phosphonazo R, 1978.
thoron I, 1978.
Lithium chloride, detmn. of Cd and Pb in, anode stripping voltamm., 24.
Liver, assay of arginase in, spectroph., 452.
detmn. of Co in, atomic-absorption spectroph. 1549.
photom., elimination of interference by Cu in 1548.
of Hg in, enzymic - spectroph., 1719.
of Se in, fluorim., 994.
fractionation of extracts of, gel electroph., 233
Lotaustralin, detection on paper or thin-laye chromatograms, 1573.
Lubricating greases, classification of, B.S.I. specification for, 309.
detmn. of corrosive substances in, B.S.I. metho for, 947.
Lubricating-oil additives, detmn. of Zn and P in 3568.
Lubricating oils, classification of, B.S.I. specificatio for, 309.
column chromatography of alkylphenanthrene in, 3565.

ubricating oils,—*continued*
detmn. of neutralisation number of, B.S.I. method for, 945, 946.
  of Sn in used, atomic-absorption spectroph., 3569.
  of Zn in, atomic-absorption spectroph., 2222.
    photom., 3567.
ucerne, detmn. of DDT, DDE and TDE in, by GLC, comparison of extraction methods for, 3851.
  of terbacil in, by GLC, 1795.
uciferin, sepn., from dehydroluciferin and ATP, in firefly extracts, by gel filtration, 3739.
umichrome, detmn., ion-exchange chrom. - fluorim. 1091.
umiflavine, detmn., ion-exchange chrom. - fluorim., 1091.
uminescence, correction of emission spectra by digital computer, 3193.
utetium, detmn., a.c. polarogr., 2645.
  atomic-absorption spectroph., 2644.
  in gadolinite, by neutron activation, 2640.
,6-Lutidine, sepn. from picolines, paper electroph., 2821.
ysine, detmn., in food, spectroph. as 2,4-dinitrophenyl complex, 1726.
sepn. from arginine and histidine, as Hg^{II} complexes, and detmn., photom., 1057.
ysozyme, detmn. of tryptophan in, comparison of methods for, 3702.

M

agnesite, detmn. of Ca and Mg in, complexom., 2002.
agnesium, detmn., atomic-fluorescence spectroph., 2602.
    elimination of interference in, 1359.
  complexom., 2001.
  in ammonium alum., by ion-exchange - complexom., 1366.
  in biol. materials, by neutron activation, 1534.
    fluorim., 2270.
  in biol. tissues and c.s.f., atomic-absorption spectroph., 2860.
  in blood serum, fluorim., 984, 1540.
  in dolomites, complexom., 748.
  in magnesite, complexom., 2002.
  in milk, ion-exchange chrom. - volum., 3030.
  in minerals, ores or rocks, spectroph., 1358.
  in nickel, spectroph., 2127.
  in plants, by neutron activation, 1C.
    complexom., 2265.
  in presence of Ca, complexom., with photom. end-point, 3333.
  in urine, fluorim., 1540.
  ion-exchange chrom. - complexom., 985.
  of P and S in, by neutron activation, 2702.
  paper chrom., on impregnated paper, 3332.
  spectroph., 2001.
  volum., as arsenate, 1335.
  X-ray spectrogr., role of window of X-ray tube in, 1962.
device for sub-dividing ground chips of, 3140.
sepn. from other metals, by solvent extraction with salicylaldoxime, 700.
Magnesium, reagents for, 2,2′-dihydroxyazobenzene, 1540.
Titan yellow, 1358.
Victoria violet, 2001.
xylidyl blue II, 2127.
Magnesium alloys, analysis, X-ray spectrogr., irregular intensity in, 1367.
detmn. of Ni in, photom., B.S.I. method for, 57.
Magnesium manganese ferrate(III), detmn. of Mn in, spectroph., 2103.
Magnesium oxide, analysis of mixtures of, with $MgHPO_4$, spectrogr., 3294.
detmn. of free, in $MgO - SiO_2$ or $MgO - Cr_2O_3$ systems, complexom., 745.
  of impurities in single crystals of, by neutron activation, 2603.
Magnesium polyphosphates, analysis, paper chrom., 1360.
Maize. (See also *Sweet corn.*)
detmn. of fenthion in, in presence of its metabolites, by solvent extraction - column - gas chrom., 2409.
  of filth in de-germinated products, comparison of methods for, 538.
  of tryptophan in, enzymic - spectroph., 2415.
Maize kernels, detmn. of amino-acid composition of proteins of, automated, 3832.
Maize meal, extraction of insect fragments and rodent hairs from, collaborative study of methods for, 1724.
Maize syrup. (See *Starch syrup.*)
Malaoxon, detmn., in crops and milk, by solvent extraction - GLC, 1168.
GLC of, comparison of supports for, 1868.
Malathion, detmn., by GLC, 1808.
    comparison of supports for, 1868.
    dual-detection systems for, 1806.
  by wet oxidation and spectroph., automated, 1807.
  in crops and milk, by solvent extraction - GLC, 1168.
  in fish and natural water by solvent extraction - GLC, 3127.
  in wheat, gel-permeation clean-up for, 3117.
    spectroph., 3116.
Maleic acid, detmn., in bread, simult. with fumaric acid, by ion exchange - TLC, 523.
Malic acid, detmn., in biol. fluids, spectrofluorim., 2297.
  in fruits and juices, polarim., 3048.
  spectrofluorim., 1454.
Malonic acid, diethyl ester, transesterification of, with 3-methylbutan-1-ol, study of, by GLC, 260.
—, methyl-, detmn., in urine, by TLC - GLC, 391.
Malononitrile, sepn. of tautomeric forms of, by TLC, 3521.
—, methylene-, detmn., photom., 906.
Malt, detmn. of phenols in, spectroph., 3069.
isolation of tannins from, 1766.
Malt wort, detmn. of amino-acids in, by ion exchange - GLC., 1767.
  of anthocyanogens and tannins in, 1766.
  of carbohydrates in, by GLC as trimethylsilyl deriv., 1765.
    by TLC, 1170.
  of N compounds of high mol. wt. in, spectroph., 1769.
  of ornithine and 4-aminobutyric acid in, column chrom., 1769.
Maltose, sepn. of degradation products of polymerised, by GLC, 3509.
Malvidin-3,5-diglucoside, detection, in grapes, by TLC, spray reagent for, 3074.
Malvin, sepn. from paeonin, in red wine, by paper or thin-layer chromatography, 1771.
Mandelic acid, resolution of racemic, ion-exchange chrom., 1471.
—, 4-hydroxy-3-methoxy-, detmn., in blood serum and urine, electroph. radiom., 392.
  in urine, in presence of abnormal catecholamine metabolites, by TLC, 3683.

Mandelic acid, 4-hydroxy-3-methoxy-, determination —*continued*
    simult. with 4-hydroxy-α-hydroxymethyl-3-methoxybenzyl alcohol, 1024.
    spectroph., interference by nalidixic acid in, 393.
Maneb, detmn., in fruits and vegetables, in presence of related dithiocarbamates, spectroph., 555.
  in mixtures with nabam and zineb, polarogr., 1190.
  in pesticide residues in crops, polarogr., 1191.
Manganese, concn. of, on pyrogallol - formaldehyde resin, 3276.
 detmn., amperom., 3438.
  complexom., use of broadening of NMR line of H_2O in, 852.
  in biol. materials, by neutron activation, 1534.
  in cast iron, atomic-absorption spectroph., 861.
  in copper ores, by neutron activation, 3328.
  in dairy products, by neutron activation, 1C.
  in fats and fatty oils, spectroph., 1778.
  in fertilisers, atomic-absorption spectroph., 3105.
  in foods, spectroph., by modified A.O.A.C. method, 3012.
  in Fe^{III} oxide, spectrogr., 2108.
  in minerals, ores or rocks, photom., automated, 109.
  in plants, by HCl extraction - atomic-absorption spectroph., 2266.
   and foods, colorim., 1780.
  in presence of Cu, polarogr., 165.
  in soil, atomic-absorption spectroph., 3097.
  in soil extracts, spectroph., 3838.
  in steel, atomic-absorption spectroph., 861.
   X-ray spectrogr., 2741.
  in zeolites, volum., 1337.
  mercurim., as pyridine - SCN^- complex, 23.
  of Mn^{III}, by solvent extraction - spectroph., 2567.
   in silicones, photom., 2253.
  of protein-bound, in blood serum, by gel filtration - neutron activation, 2855.
  photom., 2102.
  spectroph., 164, 3311.
 sepn. from Zn, by ion exchange, 3439.
  of Mn^{II} from Cr^{III}, by ion exchange, influence of conditions on, 1408.
 suppression of polarogr. max. of, by alkanols, 3302.
Manganese, reagents for, 3-cyano-1,5-bis(2-hydroxy-5-sulphophenyl)formazan, 3311.
 dithizone, 164.
 formaldoxime, 109, 2851.
 4-methoxybenzothiohydroxamic acid, 2567.
 NNN′N′-tetrakis-(2-hydroxypropyl)ethylenediamine, 1780, 3838.
Manganese alloys, analysis of Mn - Cu - Mo, photom., 699.
Manganese compounds, chloro-complexes of Mn^{II}, absorption of, by Dowex A-1, 2559.
Manganese ores, analysis, X-ray spectrogr., 1310C.
Manganese(IV) oxide, detmn. of Mn in, potentiom., 2731
  of oxidising capacity of ores of, 2731.
Mannitol, detmn., amperom., 3271.
  in beverages, in presence of sorbitol, invert sugar, glycerol and butane-2,3-diol, by TLC - fluorim., 3042.
 sepn. from sorbitol, in presence of sugars, by TLC, 1747.
Mannosides, sepn., by TLC, 3642.
Margarine, detmn. of Ni in, spectroph., 3803.
Marijuana. (See *Cannabis.*)
Marine deposits. (See also *Water, sea.*)
 detmn. of alkali- and alkaline-earth-metals in, atomic-absorption spectroph., 3877.
  of Ba, Co and Ag in, by neutron activation, 3296.
  of Ir and Os in, by neutron activation, 3129.
Mass spectrometry, all-glass heated inlet for, 1910.
 analysis of high-purity materials by spark-source, 4012.
 1968 annual review, 677, 1948.
 bakeable quadrupole instrument for, 1908.
 computer system for GLC, of complex mixtures, 3227.
 detection of metastable peaks in, 1913.
 detmn. of elementary composition by field-ionisation, 1296.
 filament-current regulator for, 652.
 instrument for simult. collection of positive and negative ions, 1909.
 mathematical solution of problem of standards in, 1298.
 modification of MS 9 spectrometer for field-ionisation, 2515.
 ‘perfluorokerosine’ as internal reference for, 1911
 servo-amplifier for recording ion-current ratio in 4013.
 sources of error in spark source, 2516.
 time-of-flight, review, 3226.
 use of amplitude selector for pulse counting wit scintillation ion detector, 1912.
  of computers in, 3227, 4014.
Meat, assessment of quality, of, review of chemica and physical methods for, 3797, 3798.
 detmn. of ash and N in, B.S.I. methods for, 508
 identn. of source of, enzymic - electroph. 3026.
Meat products, detmn. of ash and N in, B.S.I methods for, 508.
  of freshness limit for minced beef, specificatio for, 3019.
  of glucono-δ-lactone in, polarim., as molybdat complex, 3799.
  of phenols in smoked, paper chrom. - spectroph., 502.
 identn. of animal fats in, by GLC, 3020.
  of type of meat in, serological, 3020.
 nitrogen factor for barley proteins in, 3022.
  for pigs’ blood in, 3021.
 sausages, detmn. of H_2O, fat and protein in 1153.
Meat-pickling mixtures, detmn. of ascorbic acid an nitrite in, 3023.
Medicago spp., sepn. of anthocyanins and anthocyanidins of, by TLC, 3720.
Melamine, detmn., in industrial wastes, turbidim or iodim., 1830.
  potentiom., in dimethyl sulphoxide medium 2251.
—, hexamethyl-, detmn., in biol. fluids, ion-exchang chrom., - spectroph., 1007.
Melanin, ^{14}C-labelled, detmn., in fungal cell walls by liquid-scintillation counting, 2952.
Melengestrol acetate, detmn., in biol. tissues, b TLC - spectroph., 2286.
Melting-point, detmn., by DTA, 2531.
Menaphthone, detmn., in pharm. prep., colorim 3753.
   by TLC - spectroph., 1678.
Menthol, detmn., in tobacco, by GLC or colorim 1601.
Mephenesin, detmn., in pharm. prep., colorim., 376
Meprobamate, detmn., in pharm. tablets, i.r. spectroph., 1696.

Mepyramine maleate, detmn., in cough syrups and expectorants, colorim., 1138.
in mixtures with paracetamol, phenylephrine hydrochloride and codeine phosphate, column chrom. - spectroph., 1134.
Mercapto-groups, detmn., in blood serum, amperom., 1060.
photom., 228.
Mercury, analysis of mixtures of Hg^{2+} with organomercury^{2+}, spectroph., 69.
with Bi, Cd, Cu, In, Pb or Zn, amperom., 3298, 3299.
detmn., atomic-fluorescence spectroph., in parts per 10^9 range, 3343.
static vapour method for, 2617.
by inhibition of glucose - glucose oxidase reaction, 1350.
of invertase, 3344.
by isotope dilution with sub-stoicheiometric sepn., 3345.
complexom., in non-aq. media, 707.
coulom., 163.
in air, radiom., 1194P.
in air, blood or urine, atomic-absorption spectroph., 2435.
in biol. materials, by neutron activation, 1543.
and food, enzymic - spectroph., 1719.
in biol. tissues and urine, by isotopic exchange, 2864.
in minerals, ores or rocks, by neutron activation, 68.
in presence of Sb in alkali sulphide soln., polarogr., 2008.
photom., 757.
as methylene blue - $[HgI_4]^{2-}$ complex, 758.
polarogr., as alkyldithiocarbamate, 268.
spectroph., 3342.
potentiom., 2596.
identn. of Hg^{II} on paper chromatograms, reagent for, 3289.
sepn. of, as foam, from Fe, effect of HCl concn. on distribution factor, 853.
solvent extraction of Hg^{II} from acid soln., 706.
Mercury, organic compounds of, alkyl-, GLC of, 2185.
detmn. of Hg in, spectroph., 495.
Mercury, reagents for, furacyline, 757.
2-mercaptobenzothiazole, 2596.
Merophan. (See *Alanine*, 3-{o-[*bis*(2-*chloroethyl*)-*amino*]*phenyl*}-.)
Mesothorium 1. (See *Radium*-228.)
Mesothorium 2. (See *Actinium*-228.)
Mestranol, detmn., in pharm. tablets, fluorim., 2386.
spectroph., automated, 3779.
Metadrenaline. (See *Adrenaline*, 3-O-*methyl*-.)
Metal complexes, with 2,5-dibenzoyl-3,4-dihydroxyselenophen, spectrophotometry of, 13.
with diethyldithiocarbamates, solvent extraction and exchange constants of, 2547.
with dithizone, solvent extraction and exchange constants of, 2547.
with Eriochrome black T, study of, 1957.
with 8-hydroxyquinoline, mass spectrometry of, 708.
with 2-thenoyltrifluoroacetone, fractional sublimation of, 3309.
with 4-(2-thiazolylazo)resorcinol deriv., study of, 2553.
Metal hydroxides, co-pptn. of Cr, Mo and Rh with, 2564.
Metal nitrides, detmn. of N in, by Dumas method, 20.
Metal oxides, applications of molten, as reagents, 680.
electron micro-probe analysis of, 3980, 3981.
Metal salts, gel-filtration behaviour of, 692.
Metals. (See also *Trace elements*.)
adsorption of, on Dowex 1-X8, 3277.
on weakly basic anion-exchange resin, 3275.
analysis, spectrogr., technique for, 2550.
concn. of, on phenol - formaldehyde resins, 3276.
detmn., atomic-absorption spectroph., atomisation by d.c. arc in, 3281.
solvent extraction as tetramethylenedithiocarbamates for, 1956.
complexom., with morin as indicator, 2552.
in fats and fatty oils, 2535C.
paper and thin-layer chrom., 2535C.
in natusal water, atomic-absorption spectroph., 3123, 3124.
of 10^{-6} to 10^{-15} g amounts of, by evapn. of radioisotopes from solid surfaces, 3283.
of binary mixtures of, amperom., 3298.
of gases in, effect of gas contents of graphites on, 3285.
graphite resistance furnace for inert-gas fusion, 2452.
of H in, apparatus for, 3909.
of impurities in, spectrogr., after concn. by directional freezing, 2549.
of O in, by reductive fusion in argon, 3418.
in liquid, continuous, apparatus for, 3910P.
of protein-bound, in blood and serum, by gel filtration - neutron activation, 2855.
spectroph., with 3-cyano-1,5-bis(2-hydroxy-5-sulphophenyl)formazan, 3311.
distribution coeff. on anion-exchange resins, in oxalic acid medium, 2561.
group extraction - concn. of, as internal complexes, 691.
paper chromatography of, on paper impregnated with trioctylamine salts, 3274.
sepn., by ion-exchange in dimethyl sulphoxide - methanol - HCl, 18.
on cellulose phosphate, 2546.
electroph., on Sn^{IV} phosphate paper, 2548.
paper chrom., on cellulose acetate pre-treated paper impregnated with 2-thenoyltrifluoroacetone, 19.
TLC of, on alginic acid, 1958.
Metals, reagents for, 3-cyano-1,5-bis(2-hydroxy-5-sulphophenyl)formazan, 3311.
phenyldithioacetic acid, 3278.
Metaraminol, detection, on TLC plates, 3532.
detmn., in biol. tissues in presence of α-methyl-*m*-tyramine, ion-exchange chrom. - fluorim., 2938.
Metastannates, of bivalent metals, analytical study of, 2054.
Meteorites, analysis of org. constituents in, mass spectrom., 203.
detmn. of F in, spectroph., 2720.
of Ga, Ge and In in, by neutron activation, high blank values in, 1389.
of U distribution in, 3372.
measurement of activities of radioisotopes induced by cosmic rays in, 3284.
Methacrylic acid, detmn., in poly(methacrylic acid), oscillopolarogr., 2840.
Methacrylic acid esters, detmn., in presence of acrylates, polarogr., 3591.
ethylene di- detmn., in propellents, by GLC, 978.
Methacrylonitrile, detmn., polarogr., 2246.
Methallibure, detmn., in feeding-stuffs, column chrom. - spectroph., 1792.
Methane, detmn., in air, apparatus for, 3905P.
in helium, hydrogen or neon, by mol. sieve at −196°, 715.
sepn. from ethane and N_2O, by GLC, 712.

Methane, bis(4-isocyanatophenyl)-, detmn. of chlorobenzene and isocyanatobenzene, in, by GLC, 970.
—, bromo-, detmn., in cereals, X-ray spectrofluorim., 1166.
  in wheat and flour, by solvent extraction - GLC, 1192.
—, diantipyrinyl-, detmn., photom., 3525.
—, dichloro-, detmn., in spices, by GLC, 3053.
  in hop extract, by GLC, 3815.
—, tetraphenyl-, sepn. from chlorotoluenes, by TLC, 2662.
—, trichloro-, detection, in natural water, by GLC, 3125.
Methanethiol, detmn., in air, in presence of other S-containing gases, by membrane filtration and microcoulom. detection, 1196.
Methanol, B.S.I. specification for, 894.
  detmn., in aq. soln., thermom., 237.
Methapyrilene fumarate, detmn., in syrup, in presence of ephedrine hydrochloride and codeine phosphate, by GLC, 1716.
Methine groups, acyclic, NMR proton chemical shifts for, graphic representation of, 226.
Methiocarb, detmn., in crops, gas chrom. - microwave spectrom., 2428.
Methohexitone, identn., i.r. spectroph., 1680.
  sepn. from other barbiturates or thiobarbiturates, by TLC, 1127.
Methoin, identn., by TLC, 1679.
Methomyl, detmn., in soil or biol. tissues, by microcoulom. GLC, 3856.
Methoxychlor, detmn., in animal dips, coulom., automated, 1804.
  in natural water, by solvent extraction - TLC, 1206.
  in presence of BHC and DDT, by solvent extraction - TLC, 3128.
Methoxy-groups, detection, i.r. spectroph., 2149.
  detmn. of ^{14}C in, as iodomethane, 2150.
Methoxyphenamine, identn., microscopic, 1701.
Methylamines, detmn., by GLC, 3523.
Methylamphetamine, detmn., in urine, in presence of amphetamine and ephedrine, by TLC - spectroph., 3627.
Methylene blue, detmn., in eye-drops containing amylocaine and naphazoline, by TLC or spectroph., 1715.
***N*-Methyl-groups,** detection, by NMR, 3493.
Methylphenobarbitone, identn., by TLC, 1679, 3623.
  i.r. spectroph., 1680.
Microchemical analysis, 1968 annual review, 677.
Microscopy, identn.. of compounds by, with reversible complex formation, 3228.
Milk, buffalo's, detmn. of fat in, by Gerber method, 1155.
Milk, cow's, assay of alkaline phosphatase in, substrate for, 3035.
  of β-glucuronidase in, spectroph., 3036.
  detmn. of added water in, by haemolysis test in isotonic soln., 1732.
  of aflatoxin M in, by TLC - spectroph., 1734.
  of biacetyl in, by GLC, 3031.
  of Ca and Mg in, ion-exchange chrom. - volum., 3030.
  of C_2 to C_{18} fatty acids in, by temp.-programmed GLC, 1156.
  of casein in, by pptn. method, 3801.
  of fat in, by Gerber method, B.S.I. standard for, 1154.
  of fenthion in, in presence of its metabolites, by solvent extraction - column - gas chrom., 2409.
Milk, cow's, determination—*continued*
  of freezing-point of, by thermistor cryoscopy
  3029.
  of iodofenphos and 2,5-dichloro-4-iodopheno
  in, column - gas chrom., 1167.
  of malathion and malaoxon in, by solvent extraction - GLC, 1168.
  of mercapto-groups, heat-activated, in skimmed, spectroph., 513.
  of Mo in, colorim., 500.
  of plasticisers in samples in contact wit
  synthetic rubber, 1733.
  of proteins in, absorptiom., 3033.
  spectroph., 3032.
  of proteose-peptone, proteose and peptone i
  turbidim., 1157.
  of Se in, spectrofluorim., by co-pptn. with As
  499.
  of Sr in, column chrom. - flame photom., 355
  of trichlorphon and dichlorvos in, by TLC with
  enzymic detection, 3811.
  identn. of aflatoxin M_1 in, by ref. index of crystal
  and X-ray diffraction data, 1574.
  sepn. of casein fractions in skimmed, by ge
  filtration on Sephadex, 514.
Milk, evaporated, detmn. of carbonyl compounds i
  photom., 509.
  of 2-furaldehyde in, gas chrom. - mass spectrom., 510.
Milk, human, detmn. of F^- in, electrom., afte
  centrifugation, 3620.
Milk powder, detmn. of 5-hydroxymethyl-2-furaldehyde in, spectroph., 511.
  study of carbonyl compounds formed by breakdown of lipids in, chrom., 1718.
Milk products, detmn. of C_2 to C_{18} fatty acids in, b
  temp.-programmed GLC, 1156.
  of fat in, by Gerber method, B.S.I. standar
  for, 1154.
  of volatile acids in, by GLC of steam distillates
  512.
Minerals, ores and rocks, analysis, applications o
  physical techniques in, 1314C.
  by electron probe, correction factors for, 878.
  by neutron activation, with high-resolutio
  X-ray detectors, 1429.
  methods for 107.
  spectrogr., d.c. arc and a.c. spark methods fo
  2763.
  prepn. of standards for, 2137.
  X-ray spectrogr., 1310C.
  concn. of trace elements in, by ion exchange, 347
  detmn. of age of, by detmn. of Ar and K in, 87
  of alkanes in, by GLC - mass spectrom., 1492.
  of Al_2O_3 and SiO_2 in, atomic-absorptio
  spectroph., 108.
  of distribution of rare metals in, 2138.
  of Fe^{II} in, volum., 110.
  of major components in, radiom, 2765.
  of Mn in, photom., automated, 109.
  of P in, atomic-absorption spectroph., 3842.
  of Ti in, as Ti^{IV} gallate, by solvent extraction
  spectroph., 118.
  of trace elements in, spectrogr., 106.
  X-ray spectrogr., 201.
  of H_2O in, thermohygrometric, 3480.
  identn., in polished sections and in granule
  2138.
  measurement of small vol. of inert gases in, 1223B
  of surface area of, by adsorption of Xe at —78
  2140.
  phosphate, X-ray diffraction patterns of phase
  formed during acidulation, 3841.

inerals, ores and rocks,—*continued*
sampling of, amendment to B.S.I. method for, 3481.
study of size-distribution of, 794.
itragyna alkaloids, detmn., comparison of methods for, 1665.
ogadon. (See *Nitrazepam.*)
olasses, detmn. of aconitic acid in, comparison of methods for, 1722.
  of reducing matter in, photom. ferricyanide method for, 1721.
  of total and invert sugars in, collaborative study of, 3013.
olybdate, gel chromatrography of, 149.
detmn., by pptn. titration with Pb(NO$_3$)$_2$, 37.
olybdenite, detmn. of Al, Bi, Ca, Pb, Fe, Mg and Si in, spectrogr., 2091.
  of Re in, by neutron activation, 151, 152.
    in flue-dust from, atomic-emission spectroph., 2715.
olybdenum, analysis, by radioisotope non-dispersive X-ray spectrometry, 1310C.
concn. of, in rocks or soils, by ion exchange, 3479.
detection, flame-emission spectroph., 1334.
detmn., in catalysts, photom., 2072.
  in indium, by solvent extraction - spectroph., 3354.
  in iron and steel, spectrogr., 2117.
  in milk, colorim., 500.
  in presence of other metals, polarogr., 841.
  in sea water, colorim., 1211.
    in presence of V, chelating ion-exchange chrom. - spectroph., 1212.
  in soil, spectroph., 3095.
  in steel, spectroph., 2745.
  in Ta oxide films, mass spectrom., 2698.
  in vegetables rich in Ca, by neutron activation, 518.
  of impurities in, by neutron activation, 3429.
  of Mo^{V} in steel, spectroph., 2116.
  of Mo^{VI}, amperom., 148.
      or potentiom., with coulometrically generated Ti^{III}, 3428.
    by catalytic reaction, 839.
    by h.f. titration, as complex with cupferron, 1339.
    by solvent extraction - spectroph., 2088.
    complexom., 3426.
    photom., 2089.
    volum., in H$_3$PO$_4$ medium, 2565.
  of N in foils, spectrogr., 3286.
  of W in, sepn. by counter-current extraction in, 844.
  photom., 838.
  spectroph., 3427.
  u.v. spectroph., 1969.
isotopic analysis of, mass spectrom., 1912.
sepn. from other metals, by ion exchange, 2090.
  of Mo^{VI} from other elements, column chrom, 1340.
solvent extraction of, as complex with salicylohydroxamic acid, spectroph. study of, 1971.
  from HCl medium, with aniline, 2714.
Molybdenum, reagents for, Alizarin red S, 2089.
ammonium thiocyanate, 3354.
chromotropic acid, 2116.
5,7-dibromo-8-hydroxyquinoline, 838.
ferron, 3427.
o-nitrophenylfluorone, 3095.
pyrrolidine-1-carbodithioic acid, ammonium salt, 1969.
  morpholinium salt, 2745.
Saturn violet LRL, 2089.
tetramethylenedithiocarbamic acid, NH$_4$ salt, 1969.
zinc dithiol, 500.
Molybdenum alloys, analysis of Mo - Cu - Mn, photom., 699.
  phase analysis of C-containing, 2712.
Molybdenum(V) chloride, detmn., gravim., 3279.
Molybdenum compounds, with Ge, detmn. of Mo and Ge in, 2713.
Molybdenum(VI) oxide, detmn. of Sb or As in, spectrogr., improved sensitivity of, by addition of I or CBr$_4$, 150.
  of Mo in, volum., 840.
Molybdenum oxide chlorides, detmn., gravim., 3279.
Molybdic acid, detmn. of Mo in, volum., 840.
Molybdosilicic acid, detmn., non-aq. volum., 842.
Monazite, detmn. of Y oxide in, X-ray spectrogr., 3360.
Monochromators, Littrow-mounted grating, elimination of spurious radiation in, 2479.
Monomers, acrylic or methacrylic, detm., volum., 2243.
  for dentures, detmn. of cross-linking agents in, i.r. spectroph., 2244.
Monosaccharides. (See under *Sugars.*)
Montmorillonite, sodium, heterometric titration of, 2761.
Monuron, detmn., in natural water, algae and soil, by TLC, 3876.
Moroxydine hydrochloride, detmn., paper chrom. - volum. or spectroph., 3781.
Morphactins. (See under *Fluorene*-9-*carboxylic acid.*)
Morphine, detmn., in mixtures with codeine and paracetamol, u.v. spectroph., 2976.
  in suppositories, spectroph., 1112.
Morphine sulphate, detmn., in pharm. prep., colorim., 3785.
Morpholine, detmn., complexom., 3538.
  in industrial water, B.S.I. method for, 3884.
  sepn. from pyrrolidine and piperidine, by TLC, 3828.
—, **4-alkyl-2-phenyl-,** GLC of, 935.
Mössbauer spectrometry. (See *Spectrofluorimetry, gamma-ray nuclear resonance*).
Mowrah cake, detection, in oil cake, by reaction of 'mowric acid' with H$_2$SO$_4$, 544.
Mowrah oil, detection, in butter fat, by TLC of saturated triglycerides of, 3802.
Mucins, sepn., gel electroph., on polyacrylamide, 1618.
Mucopolysaccharides, analysis, i.r. spectroph., 1567.
  identn., micro-electroph., on cellulose acetate, 1016.
  sepn., ion-exchange chrom., 3646.
Muscle, detmn. of Ca and Mg in, atomic-absorption spectroph., 2860.
Mustard, detmn. of *p*-hydroxybenzyl isothiocyanate in, enzymic - spectroph., 1788.
  of isothiocyanates in, comparison of methods for, 1742.
  extraction of insect fragments and rodent hairs from, collaborative study of methods for, 1724.
Mustine, sepn. from other biol. alkylating agents, by TLC, 493.
Myoinositol. (See *Inositol.*)

N

NAD. (See *Nicotinamide-adenine dinucleotide,*)
NMR. (See *Spectrometry, nuclear magnetic resonance.*)
Nabam, detmn., in mixtures with zineb and maneb, polarogr., 1190.
  in pesticide residues in crops, polarogr., 1191.
Naled, detmn., in animal dips, coulom., automated, 1804.

Naphazoline, detmn., in eye-drops containing amylocaine and methylene blue, by TLC or spectroph., 1715.
in presence of antazoline, by GLC, 2999.
identn., in presence of tolazoline, phentolamine and antazoline, by TLC, 3784.
Naphtha. (See *Petrol; Petroleum.*)
Naphthalene, alkyl deriv. of, GLC of, 2815.
—, octahydro-, analysis of mixtures of, with octenes, t-butylcyclohexenes, octanols, decahydronaphthol and t-butylcyclohexanols, by GLC, 230.
Naphthalenedisulphonic acid, amino-, sepn. of isomers of, column chrom, 2205.
1,4-Naphthaquinone, distinction from 2-methyl deriv., spot test for, 208.
Naphtho-1,2,3,4-[*def*]chrysene, identn., in air-borne dust, by TLC - spectrofluorim., 1203.
1-Naphthol, detmn., i.r. spectroph., in presence of toluene, 3551.
kinetic photom., 3550.
of 2-naphthylamine in, by TLC, 2204.
paper chromatography of 'chemically pure', 2429.
2-Naphthol, detmn., kinetic photom., 3550.
paper chromatography of 'chemically pure', 2429.
—, 1-nitroso-, detmn., volum., 3545.
—, 1-(2-pyridylazo)-, applications of, in analysis, 1952.
Naphthol, decahydro-, analysis of mixtures of, with octenes, octahydronaphthalenes, octanols, t-butylcyclohexenes and t-butylcyclohexanols, by GLC, 230.
1-Naphthyl carbonate, detmn., in presence of toluene, i.r. spectroph., 3551.
1-Naphthylamine, detmn. of 2-naphthylamine in, by TLC, 2203.
potentiom., 3542.
2-Naphthylamine, detmn., complexom., 3538.
in 1-naphthylamine, by TLC, 2203.
—, *NN*-bis(2-chloroethyl)-. sepn. from other biol. alkylating agents, by TLC, 493.
Naphthylamine derivatives, detmn., photom., 2203.
Narcobarbital, detection of decomposition products of, by TLC, 1683.
Narcotics, detmn., in illicit mixtures containing diluents, column chrom., 458.
Narcotine. (See *Noscapine.*)
Nasal mucus, detmn. of radioactivity in, A.E.R.E. procedure for, 979.
Natural gas, analysis, by GLC, system for, 604.
detection of odorants in, composition for, 950.
detmn. of H_2O in, by GLC, 2225.
isotopic analysis of Ne in, 716.
Nealbarbitone, identn., i.r. spectroph., 1680.
Neodymium, detmn., volum., 2028.
sepn. from Pr, by TLC, 3368.
Neodymium, reagent for, rhodizonic acid, Na salt, 2028.
Neodymium complexes, with 5,7-dibromo-8-hydroxyquinoline, study of, 2026.
Neomycin, detmn., in aq. soln., spectroph., 1676.
Neon, detmn., in helium, atomic-absorption spectroph., 1343.
of methane in, by mol. sieve at −196°, 715.
isotopic analysis of, in natural gas of high He content or in air, 716.
Neptunium, detmn. of Np^{IV} in molten LiCl - KCl eutectic, chronopotentiom., 100.
in urine, in presence of Pu^{IV} and U^{VI}, 3612.
Neuraminic acid, detection, in erythrocytes, by TLC, 402.
—, *N*-acetyl. (See *Sialic acids.*)
Niacin. (See *Nicotinic acid.*)
Niacinamide. (See *Nicotinamide.*)
Nialamide, detection, in urine, 1313C.
identn., by TLC, 486.
Nickel, detmn., below reliable limit of detection, spectrogr., 3291.
by electrodeposition - iodim., 28.
by solvent extraction - spectroph., 1332, 2122, 2123, 2751.
by TLC - reflectance spectroph., 27.
complexom., 1951.
gravim., 1326.
in Al nitrate, polarogr., 2017.
in beer, in presence of Fe and Co, spectroph., 3070.
in blood and biol. tissues, semi-quant., by circular TLC, 2881.
in cast iron, photom., 1422.
in cereals, by TLC - spectroph., 1779.
in Cr - Ni thin layers, X-ray spectrogr., 2087.
in cobalt, by solvent extraction - spectroph., 3464.
in fats and fatty oils, spectroph., 1778.
in hydrogenated fats, 2535C.
in Mg alloys, photom., B.S.I. method for, 57.
in margarine, spectroph., 3803.
in minerals, ores or rocks, atomic-absorption spectroph., with resonance detector, 2750.
in mixtures of alkaline-earth metal oxides and SiO_2, spectrogr., 3290.
in Ni - Al_2O_3 - SiO_2 catalysts, 2126.
in presence of Cr, Fe and V, by ion-exchange, 3310.
of Co, polarogr., 188.
spectroph., 868.
of other metals, by TLC, as pyridine - SCN^- complex, 26.
paper chrom. - radiom. pptn., 190.
in sea water, spectroph., 1214.
in silicates, atomic-absorption spectroph., 2048
in steel, photom., 189.
spectrogr., 867.
spectroph., 2118.
X-ray spectrogr., 2741.
in wine, atomic-absorption spectroph., 3073
mercurim., as pyridine - SCN^- complex, 23.
of adsorbed H in electrodeposited, 41.
of C in, by combustion, without flux, 1387.
of Mg in, spectroph., 2127.
of metallic, in reduced ores or oxide, atomic-absorption spectroph., 859.
of Ni^{II} in presence of Fe^{III}, spectroph., 172.
of N in foils, spectrogr., 3286.
of P in, photom., 3470.
and S in, by neutron activation, 2702.
spectroph., 870, 871, 1964, 2121, 2124, 2752 3466, 3467.
sub-stoicheiometric coulom., 3468.
identn. on paper chromatograms, reagent for 3289.
sepn. from Cd, Co and Zn, and detmn., 704.
from Co, by solvent extraction with salicylald oxime, 700.
from Cu and Co, by TLC, as 1-(2-pyridylazo)-2-naphthol complex, 2555.
solvent extraction of, by long-chain amines from conc. halide soln., 2125.
by thiothenoyltrifluoroacetone, 1973.
suppression of polarogr. maximum of, by aliphatic alcohols, 3302.
Nickel, reagents for, 2-aminocyclopent-1-ene-1-carbodithioic acid, 2121.
2-(2-benzothiazolylazo)-1-naphthol, 1964.
NN'-bis[1-(2-aminophenyl)ethylidene]ethylenediamine, 3467.

ickel, reagents for,—*continued*
diethyldithiocarbamic acid, Na salt, 3464.
dimethylglyoxime, 3803.
dithio-oxalic acid, K salt. 871.
dithiosalicylic acid, 870.
ethyl di(1-sodiotetrazol-5-ylazo)acetate, 189.
3-mercaptoacrylic acid, 2124.
β-mercaptocinnamic acid, 2124.
3-mercaptocrotonic acid, 2124.
β-mercaptohydrocinnamic acid, 2124.
3-mercaptopropane-1,2-diol, 2752.
1-(2-pyridylazo)-2-naphthol, 3070.
quinoxaline-2-carboxylic acid, 1326.
quinoxaline-2,3-dithiol, 868.
salicylaldoxime, 2751.
2-thenoyltrifluoroacetone, 2122.
1-(2-thiazolylazo)-2-naphthol, 3466.
2-(thiobenzoyl)acetophenone, 1332.
Nickel alloys, analysis, coulom. - substoicheiom., automated, 2557.
of Cu - Ni, spectrogr., influence of counter electrode on, 1960.
of thin films of Ni - Fe - Co on Be - Cu wire by electron micro-probe, 2128.
detmn. of N in Ni - Cr foils, spectrogr., 3286.
of P in, photom., 3470.
of W in Cr - Co - Ni, fluorim., 1409.
Nickel ferrate(III), detmn. of Fe^{II} in, by solvent extraction - photom., 2107.
Nickel salts, detmn. of Co in, complexom. - spectroph., with sub-stoicheiometric masking, 3465.
Nickel sulphamate, detmn., of oxidation products of, in electroplating soln., 2753.
Nickel sulphide, detmn., in sulphide ores, 3469.
Nicotinaldehyde, detmn., in oxidation products of 3-picoline, polarogr., 931.
Nicotinamide, detmn., by GLC, 2368.
in multi-vitamin prep., collaborative study of methods for, 2984.
in oxidation products of 3-picoline, polarogr., 931.
in presence of inosine and uridine 5′-phosphate, thin-layer - ion-exchange chrom. - spectroph., 2958.
—, 1,2-dihydro-1-methyl-2-oxo-, detmn., in urine, in presence of 5-β-D-ribosyluracil, paper chrom., 1630.
Nicotinamide-adenine dinucleotide, detmn., fluorim., 1641.
Nicotine, detmn., in blood and biol. tissues, by GLC, 1550.
in tobacco, colorim., 2929.
and tobacco smoke, by GLC, 1600.
Nicotinic acid, detmn., by GLC, 2368.
by TLC, 1313C.
in oxidation products of 3-picoline, by GLC, 932.
polarogr., 931.
Nicotinonitrile, detmn. in oxidation products of 3-picoline, polarogr., 931.
Nifenazone, detmn., volum., 484.
Nifuroxime, detmn., in presence of other nitrofuran deriv., by TLC - spectroph., 3773.
Nimonic alloys, detmn. of Ni in, X-ray spectrogr., system of calibration for, 185.
Niobium, concn. of, on pyrogallol - formaldehyde resin, 3276.
detmn., atomic-absorption spectroph., concn. procedure for, 1402.
by solvent extraction - photom., 137.
spectroph., 2074.
gravim., 1972, 2696.
in minerals, ores or rocks, spectrogr., 2075.
improvement of sensitivity of, 3297.
Niobium, determination—*continued*
in presence of Ta or Ti, by solvent extraction - photom., 137.
in steel, spectroph., 1423.
in tantalum, by neutron activation, 2076.
in titanium, zirconium and other metals, spectroph., 139.
in uranium, by solvent extraction - spectroph., 2657.
in zirconium, spectroph., 807.
of 10^{-6} to 10^{-15} g amounts, by isotope dilution and rate of evaporation from solid surfaces, 3283.
of ^{95}Nb in Pu^{IV} oxide, gamma-spectrom., 2661.
of N and O in, mass spectrom., 2697.
spectroph., 824.
as thiocyanate, mechanism of, 3413.
study of arsenazo-III deriv. for, 3414.
sepn. of Nb^{V} from Ta or Zr, by ion exchange in mixed solvents, 3306.
of ^{95}Nb from fission products, 120.
from ^{95}Zr, 120.
paper chrom., 2680.
of Ta in, by neutron activation, 2076.
solvent extraction of, as complex with salicylohydroxamic acid, spectroph. study of, 1971.
Niobium, reagents for, benzoylacetone, 2074.
N-phenylbenzohydroxamic acid, 2680.
4-(2-pyridylazo)resorcinol, 139, 807, 1423, 2657.
salicylfluorone, 1972.
2′,3′,4′-trihydroxychalcone, 2696.
Niobium alloys, detmn. of Ga in Nb - Ga, complexom., 3416.
Niobium boride, analysis, 822.
Niobium(V) chloride, sepn. from Nb^{V} oxide chloride, by GLC, 3415.
from TaCl$_5$, by reaction with CaF$_2$ coated with CaO, 138.
Niobium(V) oxide fluoride, detmn. of F in, by reaction with silicon, 2719.
Nipagin. (See under *Benzoic acid, 4-hydroxy-.*)
Nitrate, detmn., by solvent extraction - spectroph., 2064.
in alkaline electrolytes, volum., 124.
in feeding-stuffs, in presence of NO$_2^-$, spectroph., 3107.
in fertilisers, photom., 1785.
in sea water, spectroph. 1210.
in silage, polarogr., 1786.
in soil, photom., 1783, 2417.
in tobacco, spectroph., automated, 2275.
spectroph., 3399.
Nitrazepam, detmn., in blood serum and urine, photom., 2283.
Nitric acid, detmn. of N oxides in effluent gases in manufacture of, 809.
solvent extraction of, from mixtures with H$_3$PO$_4$ and H$_2$SO$_4$, 1327.
Nitric phosphates, (*fertilisers*), analysis, by X-ray diffraction, 2420.
Nitriles, analysis of products in manufacture of, by GLC, 241.
Nitrite, detmn., in alkaline electrolytes, volum., 124.
in cheese, spectroph., 1158.
in feeding-stuffs, in presence of NO$_3^-$, spectroph., 3107.
in meat-pickling mixtures, in presence of ascorbic acid, by A.O.A.C. method, 3023.
in phosphatising soln., gasom., 2683P.
in presence of ascorbic acid, spectroph., 2989.
photom., 3398.
Nitro-compounds, detection, 2810.
detmn., in aniline-plant effluents, polarogr., 3891.

Nitrofurantoin, detection, in pharm. prep., paper chrom., 1108.
Nitrogen, detmn., in biol. materials, 2870, 2871.
in feeding-stuffs, comparison of Dumas and Kjeldahl methods for, 3106.
in fertilisers, collaborative study of methods for, 3103.
in metal foils, spectrogr., 3286.
in mixtures with Ar and O, by GLC, 3287.
in org. compounds, by combustion, automated, 1440.
by sealed-tube digestion and ion-exchange, 1439.
by use of $KBrO_3$, 2778.
in plants, coulom., 2265.
simult. with P, automated, 363.
in soil, volum. or mass spectrom., 3092.
of CO_2 in, mass spectrom., 808.
of ^{15}N in, spectrogr., 121.
i.r. spectroph., 1313C.
of potentially available, in soil, 539.
of H_2O in, by GLC, 2225.
Nitrogen, organic compounds of, analysis of mixtures of, containing N-N linkages, by CrO_3 oxidation, 218.
detmn., fluorescence spectroph., 3693.
Nitrogen fluorides, analysis of mixtures of, with F and HF, by GLC, 2724.
—**NF_3**, analysis, by GSC, 123.
Nitrogen oxides, detmn., in car-exhaust gases, comparison of methods for, 1818.
in effluent gases in manufacture of HNO_3, 809.
—**N_2O,** detmn., by GLC, after passage through a molecular sieve, 2433.
differentiation from O, in anaesthetics, colorim., 2997.
sepn. from ethane and methane, by GLC, 712.
—**NO,** detmn., in mixtures of N oxides, by GLC, 3400.
Nitrogen trichloride, detmn., in natural water, volum., 3871.
Nitrofurantoin, detmn., in presence of other nitrofuran deriv., by TLC - spectroph., 3773.
Nitrofurazone, detmn., in presence of other nitrofuran deriv., by TLC - spectroph., 3773.
Nitrofurylthiazole, detmn., in presence of other nitrofuran deriv., by TLC - spectroph., 3773.
Nitroglycerin, detmn., in air, in presence of ethanediol dinitrate, photom., as NO_2^- after electrolytic reduction, 1200.
Nitro-groups, detmn., by reduction and distillation as NH_3, 218.
by reduction with H, 2784.
polarogr., 1444.
Nitroso-compounds, detmn., volum., 2199.
Nitrous acid, detmn., in tributyl phosphate soln., spectroph., 810.
Noradrenaline, detmn., in biol. fluids and tissues, in presence of adrenaline, ion-exchange chrom. - fluorim., automated, 2314, 2315.
in biol. tissues and urine, in presence of dopamine and adrenaline, by GLC as trifluoroacetates, 2927.
in brain, in presence of dopamine and 5-hydroxytryptamine, fluorim., 1598.
in injections, comparison of chemical and biol. methods for, 3768.
in presence of adrenaline, spectrofluorim., 472.
identn., on TLC plates, spectrofluorim., 1313C.
sepn. from adrenaline and dopamine, by GLC as trifluoroacetates, 2926.
—, **3-*O*-methyl-,** detmn., in urine, in presence of catecholamine metabolites, by TLC, 3683.
Noradrenaline, 3-*O*-methyl-, determination—*continued*
in wine, in presence of 3-methoxytyramine and 3-*O*-methyldrenaline, by GLC, 3684.
ion-exchange chrom. - radiom., 1044.
Norbornanediol, isomers of, sepn., by GLC, and NMR spectra of, 271.
—, **methyl,** isomers of, sepn., by GLC, and NMR spectra of, 271.
Normetadrenaline. (See *Noradrenaline,* 3-O-*methyl-*)
Noroestrane-3,6-dione, 17β-hydroxy-7aα,17α-dimethyl-B-homo-A-, detmn., in pharm. prep., colorim., 3785.
Norpseudoephedrine, TLC of, 2358.
Noscapine, detmn., in opium, simult. with thebaine and papaverine, i.r. spectroph., 2353.
Nuclear reactor coolants, detmn., of Cr, Fe and Ni in, atomic-absorption spectroph., 3995.
Nuclear reactor fuels, analysis of gases in re-processing of, 2655.
of re-processing soln., remotely-operated equipment for, 1329.
detmn. of F^- in re-processing soln., potentiom., 1384.
Nuclear reactors, detmn. of Nb, Ti, V and Zr in corrosion water from, X-ray spectrogr., 35.
of radio-contaminants in pool-water of, 713.
Nucleic acids, detmn., fluorim., automated, 1087.
spectroph., 435.
sepn., by membrane TLC and electroph. on cellulose nitrate filters, 3722.
paper chrom., influence of type of paper on, 3709.
—, **deoxy-,** identn. of nucleotide or base in, ion-exchange chrom., 2953.
—, **deoxyribo-,** detmn. of methylation products of, ion-exchange chrom. - radiom., 2954.
of 'replacement' atoms in, X-ray spectrogr., 2340.
identn. of oligonucleotides in apurinic, labelled with ^{32}P, by ion exchange - thin-layer chrom. - radiom., 1086.
sepn. of bases of, in mixtures with 5-bromouracil, by TLC on cellulose, 1642.
—, **ribo-,** detmn. of base ratios in, by TLC - spectroph., 1643.
fractionation of, electroph. on agarose gel, 1088, 1089.
identn. of nucleotide or base in, ion-exchange chrom., 2953.
sepn. of terminal nucleosides of, ligand-exchange chrom., 2339.
^3H- and ^{14}C-labelled enzymic digests of, detection of ^3H and ^{14}C in chrom. eluate, monitor system for, 1644.
Nucleic acid bases, sepn. from nucleosides and nucleotides, by TLC on poly(ethyleneimine) - cellulose, 3723.
Nucleosides, GLC of silylated deriv. of, 3725.
sepn., electroph., on agarose gel, 1081.
from nucleic acid bases and nucleotides, by TLC on poly(ethyleneimine) - cellulose, 3723.
—, **diribo-,** paper chromatography of, 436.
Nucleotides. (See also *Nicotinamide-adenine dinucleotide.*)
detection, high-voltage paper electroph., 2338.
on chromatograms, microbiol., 1634.
detmn., in blood, by TLC - spectroph., 1082.
in calf-thymus DNA hydrolysates, column chrom. - u.v. spectroph., 2955.
in plants, fluorim., 437.
of oxidised and reduced, in blood, fluorim., 438.
of P in, photom., 1637.
GLC of silylated deriv. of, 3725.

- **ucleotides,**—*continued*
  - identn., in apurinic DNA, ion-exchange - thin-layer chrom. - radiom., 1086.
  - measurement of hydrolysis of, spectroph., with recording photometer, 1638.
  - sepn., chrom., on diethylaminoethylcellulose, 3724.
    - electroph. or ion-exchange paper chrom., effect of pH in, 1636.
    - from nucleic acid bases and nucleosides, by TLC on poly(ethyleneimine) - cellulose, 3723.
    - ion-exchange chrom., comparison of linear gradient systems for, 1084.
  - TLC of, photographic detection in, 599.
- **—, polyribo-,** detmn. of nucleotide composition of, spectroph., 439.
- **—, ribo-,** analysis, chrom. - u.v. spectroph., computer-programmed, 1085.
- **Nux vomica,** extraction of alkaloids of, use of surfactants in, 1109.
- **Nylon.** (See also *Polycaprolactam.*)
  - colour reactions of squeezed fibre tips of, 962.
  - detmn. of nylon 610 in presence of nylon 66, by hydrolysis - GLC, 2237.

O

- **Oats,** detmn. of lignin in grain, calorim., in sealed bomb, 3845.
  - differentiation of fluorescing substances in, from aflatoxins, by TLC, 1781.
- **Octadeca-9,11-dienoic acid,** *cis, cis-*, TLC of methyl esters of, 904.
  - sepn. and identn. of geometric isomers of, 3516.
- **Octadeca-10,12-dienoic acid,** sepn. and identn. of geometric isomers of, 3517.
- **Octadecane,** TLC of isomers of mono- and di-substituted deriv. of, 251.
- **Octalin.** (See *Naphthalene, octahydro-.*)
- **Octanols,** analysis of mixtures of, with octenes, octahydronaphthalenes, decahydronaphthols, t-butylcyclohexenes and t-butylcyclohexanols, by GLC, 230.
- **Octenes,** analysis of mixtures of, with octahydronaphthalenes, decahydronaphthols, octanols, t-butylcyclohexenes and t-butylcyclohexanols by GLC, 230.
- **Oestradiol,** detection, on TLC plates, reagent for, 1034.
  - detmn., in pharm. prep., colorim., diazo-reagent for, 2385.
  - sepn. from oestrone, in urine, and detmn. by TLC - GLC, 1035.
    - from related steroids, in urine, ion-exchange chrom., 1032.
- **Oestriol,** detmn., in urine, in presence of related oestrogens, spectroph., 1036.
  - sepn. from related oestrogens, in urine, and detmn., by TLC - GLC, 1035.
- **Oestrogens,** detection, on paper and thin-layer chromatograms, reagent for, 1034.
  - detmn., chrom., 1313C.
    - in urine, by TLC - GLC, 1035.
      - comparison of methods for, 1590.
      - spectrofluorim., 1589.
  - sepn., by TLC, 3675.
    - of mixtures of, in oily soln. of, by GLC, 473.
- **Oestrone,** detection, on TLC plates, reagent for, 1034.
  - sepn. from oestradiol, in urine, and detmn. by TLC - GLC, 1035.
    - from related compounds, by TLC, 2312.
- **Oil cake,** detection of mowra cake in, by reaction of 'mowric acid' with H_2SO_4, 544.
  - detmn. of solvents in, by GLC, apparatus for, 543.
- **Ointments,** analysis of glyceride-based excipients for, by TLC, 3008.
    - of sorbitan esters in, 1148.
  - detmn. of dimethyl sulphoxide in, by NMR, 1149.
    - of oxytetracycline in, volum., 2364.
- **Olefins,** analysis of products of reaction with PCl_3, by GLC, 2785.
  - detmn. of aldehydes and alcohols in hydroformylation products of, by GLC, 2215.
    - of hydroperoxides in oxidation products of, 232.
- **1-Olefinsulphonates,** analysis, 1498.
- **Olive oil,** analysis of polycyclic aromatic hydrocarbons in, column - gas chrom., 1173.
  - detmn. of hydroxyl value of unsaponifiable matter of, near-i.r. spectroph., 2412.
    - of peroxide value of, spectroph., 534.
- **Opium,** detmn. of narcotine, thebaine and papaverine in, i.r. spectroph., 2353.
- **Opoponax oil,** identn. of sesquiterpenes in, by GLC, i.r. and NMR spectrometry, 954.
- **Optical filters,** prepn. of, with continuously variable absorption, 3215.
- **Orange,** detmn. of phenthoate in, colorim., 525.
- **Orange juice,** detmn. of pentosans in, spectroph., 1736.
    - of P_2O_5 in, gravim. or ion-exchange - volum., 3806.
- **Ores.** (See *Minerals, ores and rocks.*)
- **Organic analysis,** 1968 annual reviews, 677, 1948.
  - applications of spectrography in, 3483.
- **Organic bases,** detmn., by catalytic thermometric non-aq. titration, 2800.
    - complexom., 3538.
    - of salts of, chronoconductim., 911.
    - potentiom., by use of interface voltaic cell, 910.
- **Organic compounds.** (See also *Organometallic compounds* and under the elements, e.g. *Nitrogen, organic compounds of.*)
  - classification of, by microscopy, 207.
  - detection of H_2O in, continuous, apparatus for, 3484P.
  - detmn. of $C\equiv C$ bonds in, by hydrogenation, 1442.
    - of functional groups in, automated, 1947C.
    - of gaseous, i.r. spectroph., by deposition on CsI, 1445.
    - of NO_2-groups in, polarogr., 1444.
    - of structure of, by hydrogenation, effect of catalyst packing on, 886.
  - identn., by use of 2-(diphenylacetyl)indane-1,3-dione in, 1432.
  - labelled with ^{14}C and ^{3}H, simplification of calculations in scintillation counting of, 1932.
  - oxidation of, by Na_2O_2, incorporation of aq. liquids in, 593.
  - oxygenated unsatd. aliphatic, NMR of, 2172.
- **Organic elementary analysis,** by field-ion mass spectrometry, 1296.
  - by O-flask combustion, flow-through system for large samples, 1435.
    - improvement of combustion in, 209.
  - decomposition of samples for, by KNO_3 - $NaNO_3$, 1434.
  - detmn. of As, by combustion, 144.
    - of ^{137}Cs, radiom., 2783.
    - of C by O-flask combustion, 210.
      - and H, by combustion, 212.
        - by combustion, use of thermal-conductivity detector in, 211.
        - by GLC, 2773.
        - in highly fluorinated compounds, by combustion, 214.
        - influence of structure of N-containing substances on, 213.

- **Organic elementary analysis,** determination—*continued*
  - of C, H and N, by GLC - coulom., 2776.
    - in compounds containing F, P and metals, automated, 2775.
    - oxidising agent for, 215.
    - with electronic integration, 2145.
  - of C, H, N and F, by combustion, automated, 220.
  - of C, H and S, by combustion, 1437.
  - of C, H, F and Cl or Br, by combustion, 3846.
  - of ^{14}C, ^{3}H and ^{35}S, by liquid scintillation counting, 350.
  - of Cl, by combustion, 221.
  - of Cl, P and S, iodim., 2782.
  - of F, by neutron activation, 219.
    - by O-flask combustion - conductim., 1438.
  - of halogens, by O-flask combustion - polarogr., 890.
  - of H, coulom., 2777.
  - of Pb, by combustion, 144.
  - of N, by combustion, automated, 1440.
    - by GLC, 3487P.
    - by reaction GLC, 3488.
    - by sealed-tube digestion and ion-exchange, 1439.
    - by use of $KBrO_3$, 2778.
  - of oxidised S in presence of reduced form, 3491.
  - of O, automated, 2774.
    - in S-containing compounds, use of Ni as absorbent in, 217.
    - study of pyrolysis products in, mass spectrom., 216.
  - of P, spectroph., 2781.
  - of Se, by O-flask combustion, 222.
  - of Si, by O-flask combustion, 223.
  - of S, automated, 2779.
    - by pyrolysis - iodim., 3489.
      - - spectroph., 3490.
    - photom., 2147.
- device for dispensing small amounts of catalysts for, 889.
  - for dispensing small vol. of samples for, 888.
- method for hygroscopic samples, 2772.
  - for liquid samples, 2771.
- rotating oven for sample decomposition in sealed-vessels 585.

Organometallic compounds, detmn. of C, H and N in perchlorates and nitrates, 2772.

Origanum oils, analysis, by GLC - i.r. spectroph., 1500.

Ornithine, detmn., in malt wort, in presence of 4-aminobutyric acid, column chrom., 1768.

Osmium. (See also *Platinium-group metals.*)
- detmn., by solvent extraction - photom., 198.
  - in marine sediments, in presence of Ir, by neutron activation, 3129.
  - in minerals, ores or rocks, by neutron activation, 2568.
  - in platinum, simult. with Au, Ir and Ru, by neutron activation, 2758.
  - of Os^{VIII}, photom., 3477.
    - spectroph., 2135.
- sepn., by ion-exchange paper and detmn., X-ray spectrogr., 2757.
  - from Ru, by distillation, 3476.

Osmium, reagents for, 5-mercapto-1,3,4-thiadiazoline-2-thione, 3477.
- 2-thenoyltrifluoroacetone, 198.

Osmium(VIII) oxide, stability of soln. of, and deactivation of, by amines, 2539.

Ouabain, detection, in cadaver material, paper chrom., 1000.
- detmn., in pharm. prep., spectroph., 1670.

Ovotran, detection, on TLC plates, fuchsine dyes for, 546.

Oxalacetic acid, sepn. of methoxime, from methoximes of 2-oxoglutaric and pyruvic acids, by TLC, 3657.

Oxalate, sepn. from SO_4^{2-}, by ion exchange, 2474.

Oxalic acid, detmn., by oxidation with MnO_2, 2173.
- oxidation of, by $KMnO_4$, study of, 253.

Oxalic acid diethyl ester, detmn., in presence of diethyl carbonate and ethanol, by GLC - i.r. spectroph., 2789.

Oxaluric acid, detmn., polarogr., 263.

Oxazepam, detection of impurities in, by TLC, 2377.
- detmn., in pharm. prep., fluorim., 3761.
- identn., by TLC, 486.

Oxidising agents, detmn., by liberation of I and GLC, 3437.
  - potentiom., standardisation of $Hg(NO_3)_2$ for, 38.

Oximes, detmn., spectroph., 264.

Oxo-acids. (See *Carboxylic acids, oxo-.*)

Oxygen, analysis, mass spectrom., interference of CO in, 141.
- detmn., by neutron activation, evaluation of systematic errors in, 825.
  - in blood, gasom., by modified Natelson technique, 3615.
  - in boiler water, automatic electrochem. analyser for, 3881P.
  - in coal, by gamma-irradiation, 2223.
  - in gases, portable apparatus for, 3146P.
  - in liquid metals, continuous, apparatus for, 3910P.
  - in metals, by reductive fusion in argon, 3418.
    - or nitrides, by inert-gas fusion with pulse heating, 2079.
  - in minerals, ores or rocks, X-ray spectrogr., 2700.
  - in mixtures with Ar and N, by GLC, 3287.
    - with fuel gases, apparatus for, 3906P.
  - in org. compounds, automated, 2774.
  - of CO_2 in, by GLC, 605.
  - of dissolved, in aq. $HClO_4$, aq. KOH or org solvents, by isotope dilution, 2078.
  - of ^{18}O in gases, by proton activation and neutron time-of-flight spectrometry, 1403
    - in water, mass spectrom., 2277.
    - i.r. spectroph., 1313C.
- differentiation from N_2O, in anaesthetics, colorim. 2997.
- sepn. from Ar, CO, CO_2, H_2S and SO_2, by GLC 3305.

Oxyphenbutazone, identn., in presence of related drugs, by TLC - u.v. spectroph., 1692.

Oxytetracycline, assay, in feeding-stuffs, microbiol. 1791.
- detmn., in ointments, volum., 2364.
- identn., in feeding-stuffs, microscopic, 3110.

Oysters, detmn. of shell in canned, 1728.

Ozone, detmn., in air, in presence of NO_2, spectroph. apparatus for field use, 3861.

P

Packaging materials, detmn. of Cu in, polarogr. 2535C.
  - of plasticisers in poly(vinylidene chloride) film by TLC and GLC, 3011.

Paeonin, sepn. from malvin, in red wine, by paper or TLC, 1771.

Paints, analysis, bibliography of, 1174.
- applications of GLC in manufacture of, 335.
- detmn. of non-volatile content of, 971.
- marine, analysis of vehicle of, i.r. spectroph., 972
- white-lead based, B.S.I. specification for, 336.

Palladium. (See also *Platinum-group metals.*)
 detmn., by pptn. as reineckate and titn. with KIO_3, 3474.
  gravim., 1326, 3473.
  in copper or nickel concentrates, by neutron activation, 3475.
  in minerals, ores or rocks, by neutron activation, 2568, 3475.
   spectrogr., 874.
  in presence of Cu, oscillopolarogr., 875.
  of Pd^{II}, amperom., 1428.
   photom., 2131, 3477.
   spectroph., 195, 196.
  photom., 197, 1427, 2136.
  polarogr., 2132.
  radiom., with use of ^{131}I, 2133.
  simult. with Au, Pt and Rh, atomic-absorption spectroph., 1974.
  spectroph., 1426.
 sepn. from Co, Au, Fe, Pt and Ag, as complex with cyclohexane-1,2-dione dioxime, 2134.
  from other metals, by ion exchange, 2759.
  of carrier-free Ag from neutron-irradiated, 2756.
 solvent extraction of Pd^{II} from acid soln., 706.
Palladium, reagents for, alizarin red S, 195.
 5-anilino-1,3,4-thiadiazole-2-thiol, 1427.
 di-2-pyridyl ketoxime, 3473.
 dithio-oxalic acid, K salt, 2136.
 dithio-oxamide, 196.
 4,4′-ethylidenebis(3-methylisoxazolin-5-one), 1426.
 5-mercapto-1,3,4-thiadiazoline-2-thione, 3477.
 picolinaldehyde 2-pyridylhydrazone, 197.
 quinoxaline-2-carboxylic acid, 1326.
 tropaeolin O and OOO, 2131.
Palm oil, detection, in arachis oil, colour reactions for, 3081.
Palmitic acid, sepn. from stearic acid, column chrom., 1848P.
Pangamic acid, detmn., by TLC - u.v. spectroph., 2961.
Pantothenate, ^{14}C-labelled, detmn., in bacterial cultures, by scintillation counting, 672.
Pantothenic acid, calcium salt, assay, in pharm. prep., microbiol., automated, 3751.
Papaveraldine, detmn., in stored papaverine hydrochloride soln., polargr., 2975.
Papaverine, detmn., in opium, simult. with noscapine and thebaine, i.r. spectroph., 2353.
  in stored samples, polarogr., 2975.
 hydrochloride, detmn., coulom., use of Reinecke salt, 459.
Papaya latex, assay of proteinase in, column chrom. - spectroph., 2972.
Paper, detmn. of H_2O in, apparatus for, 3585P.
  and basis weight of, by i.r. radiation, 958.
Paper pulp, detmn. of SO_2 and H_2S in gaseous effluents from, spectroph., 1216.
Paprika, sepn. of light filth from, by flotation, 1745.
Paracetamol, detmn., in mixtures with codeine and morphine, u.v. spectroph., 2976.
  in mixtures with codeine phosphate, phenylephrine hydrochloride and mepyramine maleate, column chrom. - spectroph., 1134.
  in pharm. prep., in presence of aspirin, salicylamide and caffeine, spectroph., 2373.
  in pharm. tablets or suppositories, spectroph., 1135.
Paraffin wax. (See *Petroleum waxes.*)
Paraffins. (See also *Alkanes; Hydrocarbons; Petroleum.*)
 analysis of oxidation products of, spectroph., 940.
Paramethasone, detmn., in pharm. prep., in presence of prednisone and fluocinolone acetonide, by TLC - spectroph., 3778.
Paramethasone, determination—*continued*
  in pharm. tablets, simult. with dextropropoxyphene, spectroph., semi-automated, 2375.
Paraoxon, detmn., in canned peaches, in presence of parathion and *p*-nitrophenol, by TLC - oscillopolarogr., 1749.
Paraquat, detmn., semi-quant., ring colorim., 1185.
Parathion, detmn., by GLC, after sweep co-distillation clean-up, 1808.
   dual-detection systems for, 1806.
  by wet digestion - oxidation and spectroph., automated, 1807.
  in canned peaches, in presence of paraoxon and *p*-nitrophenol, by TLC - oscillopolarogr., 1749.
Parathion-methyl, detection, in air, by use of a photobacterial culture, 3122P.
 detmn., by GLC, after sweep co-distillation clean-up, 1808.
   dual-detection systems for, 1806.
  by wet digestion - oxidation and spectroph., automated, 1807.
  in rice grains, in presence of fenitrothion, column - gas chrom., 2408.
 GLC of, comparison of supports for, 1868.
Parkopan. (See *Benzhexol hydrochloride.*)
Particle size analysis. (See also *Porosity; Sieving; Surface area.*)
 comparison of methods depending on X-ray reflection broadening, 1943.
 continuous-flow apparatus for, 1941P.
 continuous sepn. of spherical from non-spherical particles, instrument for, 1939.
 improved resolution in Coulter counting, 1942.
 method of sizing imaged spheres, 1940.
 of emulsions, review, 4036.
  use of Coulter counter for, 3258.
 of paints, automatic microscope for, 4040.
 of powders, 4037, 4038.
 of sodium suspensions, 2577.
 of sugar dust, sedimentation method for, 2398.
 review, 1938.
Peaches, analysis of non-volatile carboxylic acids in, by GLC of methyl esters, 2403.
 canned, detmn. of parathion, paraoxon and *p*-nitrophenol in, by TLC - oscillopolarogr., 1749.
Peanut butter, detmn. of aflatoxin in, on thin-layer chromatograms, fluorescence - densitom., 1737.
 sepn. of light filth from, by flotation, 1738.
Peanuts. (See *Groundnuts.*)
Peas, analysis of flavours of, column - gas chrom. - mass spectrom., 1161.
 assay of trypsin and chymotrypsin in, 3050.
 detmn. of volatile carbonyl compounds in, by GLC - mass spectrometry as 2,4-dinitrophenylhydrazones, 3049.
  of volatile reducing substances in frozen, apparatus for, 3808.
 sepn. of scopoletin from fluorescent compounds in, by gel filtration or paper chrom., 1020.
 study of carbonyl compounds formed by breakdown of lipids in, chrom., 1718.
Peat, analysis, review of methods for, 1181.
Pecan nuts, sepn. of light filth from ground and granulated, by flotation, 1739.
Pectic substances, analysis, i.r. spectroph., 1567.
***Peganum harmala*,** sepn. of alkaloids of, by TLC, 1666.
Penicillin, benzyl-, sepn. of mixtures of salts with penicillenic acid, by counter-current distribution and TLC of fractions, 3746.
—, phenoxymethyl-, sepn. from phenethicillin and propicillin, paper chrom., 1675.

Pentane-2,3-dione, detmn., in beer, in presence of biacetyl, by GLC, 1764.
Pentan-2-one, 5-hydroxy-, detmn. of unchanged methylfuran and acetone in synthesis of, by GLC, 2160.
Pent-4-en-2-yn-1-ols, TLC of acetates and ethers of, 3512.
Pentobarbitone, detection, by TLC, colour reagent for, 2369.
  identn., by TLC, solvent systems for, 1679.
    i.r. spectroph., 1680.
  sepn. from other barbiturates or thiobarbiturates, by TLC, 1127.
Pentose phosphate cycle, sepn. of intermediates in, paper chrom., 2905.
Peppermint oil, identn. of constituents of, by GLC or TLC, 1150.
Peptides. (See also *Dipeptides.*)
  detmn. of amino-N in gamma-glutamyl-, 1611.
    of N-terminal amino-acids in, chrom.-spectroph., by use of the 4-nitropyridyl N-oxide deriv. of, 2932.
  gel electrophoresis of, on Ampholine - polyacryl amide, 1070.
  identn., in gliadin, paper electroph. - column chrom., 2941.
  paper chromatography of, R_F values of, 2931.
  sepn. from one another and from amino-acids, ion-exchange chrom., on amphoteric exchanger, 1066.
    in mixtures with amino-acids, column. chrom., of Cu^{II} complexes of, 1067.
      thin-layer electroph. or electrochrom., 3707.
Peptone, detmn., in milk, turbidim., 1157.
Perchlorate, detection, in presence of ClO$_3^-$, 1411.
  detmn., by O-flask combustion, 2095.
    gravim., 849.
    ion-selective electrodes for, 3236.
    potentiom., 850.
    spectroph., 162.
Perchloric acid, applications of, as oxidant, 2538.
  hazards in use of, 3272.
  trap for absorbing fumes from, 582.
Perfumes, detmn. of ethanol in, turbidim., 2832.
Periodate, detmn., in presence of IO$_3^-$, volum., 1414.
Perovskite, analysis, scheme for, 2760.
Peroxides, organic, detmn., in olive oil, spectroph., 534.
  TLC of, 2788.
Peroxyacetic acid, reaction with aromatic isocyanates, 2201.
Peroxy-compounds, reaction with aromatic isocyanates, 2201.
Per-rhenate, detmn., amperom., 166.
    by pptn.-titration with Pb(NO$_3$)$_2$, 37.
Perylene, detmn., fluorim., 3554.
  sepn. from other polycyclic hydrocarbons, by TLC, 291.
Pesticides (*general*), analysis, need for improved methods of, 3056.
  common names for, B.S.I. recommendations for, 3850.
  detmn., in cereals, by gel filtration - GLC, 1798.
    in crops, by activation methods, automated, 551.
    in natural water, soil and plants, by GLC, clean-up method for, 1828.
    in soil, by GLC as bromo- or chloro-methyldimethylsilyl deriv., 2430.
    of rate of volatilisation from leaf surfaces, by GLC, apparatus for, 2425.
  test for emulsion characteristics of emulsifiable concentrates of, 1188.
Pesticides, carbamate, detmn., by assay of anticholinesterase activity, 1810.
    in crops, by GLC, after clean-up on Florisil column, 2410.
    in soil, by GLC, after clean-up on alumina column, 2427.
    spectroph., 556.
  mass spectra of, 557.
Pesticides, organochlorine, detmn., in blood, by GLC, one-step extraction and clean-up procedure for, 2894.
    in fruits and vegetables, by GLC, 3059.
    in natural water, by solvent extraction - GLC, 2442.
    in tobacco and tobacco smoke, chrom. methods for, 2426.
      column - gas chrom., 3637.
    in vegetables, column - gas chrom., 524.
    potentiom., by sodium biphenyl method, 549.
  identn., by GLC of degradation products obtained by u.v. irradiation, 547.
    by TLC, 1800.
    in blood and biological tissues, by solvent extraction - TLC, 2288.
  sepn. from thin-layer plates, 1861.
    and identn., in mixtures with herbicides, by two-dimensional TLC, 3852.
Pesticides, organophosphorus, analysis, paper chrom.-spectroph., 3118.
  detection, in blood serum, by acetylcholinesterase assay, 1557.
  detmn., by assay of anticholinesterase activity, by use of ^{14}C-acetylcholine, 1810.
    by GLC, after sweep co-distillation clean-up, 1808.
      flash injector for, 3160.
      thermionic detector for, 1876.
    colorim., 1807.
    in biol. materials, chrom., 2289.
      clean-up procedure for, 3866.
    in fruits and vegetables, by GLC, 3059.
    in grapes or soil, by GLC as methyl esters, 2407.
    in natural water, by solvent extraction - GLC, 2442.
      clean-up procedure for, 3866.
  identn., by NMR, 1809.
  thin-layer chrom. - enzymic, 3853.
  screening plant extracts for, by TLC - enzymic inhibition procedure, 526.
  sepn., chrom., on Sephadex LH-20, 552.
Petrol, analysis, by GLC, device for sample injection in, 1244.
  detection of aromatic compounds in, tube for, 1486.
  detmn. of C$_3$ to C$_{12}$ hydrocarbons in, by GLC, 308.
    of S, free and combined, in, polarogr., 941.
    of thiol-S in, B.S.I. method for, 305.
    of xylene isomers in, by GLC, 1488.
Petroleum. (See also *Aviation fuel; Hydrocarbons; Kerosine; Paraffins.*)
  analysis, review, 297.
  detmn. of Cl$^-$ in, amperom., 303.
    of Cl in, by combustion - potentiom., 1487.
    of combined N in, by combustion, apparatus for, 3563P.
    of N and O compounds in, column or ion-exchange chrom., 2216.
      in 700° to 850°F distillates, 2217.
    of S in, by pyrolysis and hydrogenation, 1491.
Petroleum, crude, analysis, by GLC, mass spectrom. and NMR, scheme for, 936.
    of light hydrocarbons in, by GLC, apparatus for, 307.

Petroleum, crude,—*continued*
  detmn. of salinity of, conductim., 937.
    of sediment in, B.S.I. method for, 306.
Petroleum gas. (See *Fuel gas.*)
Petroleum products, detmn. of ash in, B.S.I. method for, 943.
    of Conradson C residues in, 300.
    of inorg. acidity of, volum., B.S.I. method for, 298.
    of neutralisation number of, B.S.I. method for, 945, 946.
    of Ramsbottom carbon residue in, B.S.I. method for, 944.
    of S in, 302.
      B.S.I. method for, 301, 942.
    of trace elements in, atomic-absorption spectroph., 304.
    of H_2O in, B.S.I. method for, 299.
Petroleum waxes, detmn. of benzophenone deriv. in, by TLC, 2219.
    of stearyl methacrylate - cetyl methacrylate copolymer in, i.r. spectroph., 2828.
  GLC of cyclohexyl and other paraffins in, 3578.
  mass spectrometry of, 938, 939.
pH, detmn., internal capillary glass electrodes for, 3233.
    meter for, 3230P.
    of errors of glass electrodes in, 656.
    use of membrane ionite electrodes in, 3232.
  glass micro-electrode for *in vivo* use, 1918.
  scales for acidity in non-aq. and mixed solvents, 1917.
Phanquone, distinction from phenanthraquinone, spot test for, 208.
Pharmaceutical analysis. (See also *Drugs.*)
  1968 annual review, 1948.
  applications of GLC in, 1661.
    of TLC in, 3740, 3741.
  detmn. of Br- or Cl-containing drugs in, 2973.
    of Fe in, comparison of automated chemical and X-ray spectrogr. methods for, 1123.
  reviews, 455, 2973.
  use of dispersion staining in, 2351.
Pharmaceutical phials, detmn. of moisture in freeze-dried, volum., 1658.
Phenacetin, detmn., in pharm. prep., containing amidopyrine, phenazone and caffeine, by TLC - spectroph., 1687.
    volum., 1130.
    in tablets containing codeine phosphate, amidopyrine, phenobarbitone and phenolphthalein, 485.
Phenaglycodol, identn., i.r. spectroph., 1695.
Phenanthraquinone, distinction from phanquone, spot test for, 208.
Phenanthrene, sepn. from benzo[*a*]pyrene and coronene, column chrom., 1845.
—, 9,10-dinonyl-, properties and column chromatography of, 3565.
—, 9,10-ditetradecyl-, properties and column chromatography of, 3565.
—, 9-nonyl-10-tetradecyl-, properties and column chromatography of, 3565.
Phenanthrene derivatives, alkyl, sepn. and identn., in pine tar, by GLC, 1507.,
Phenazone, detmn., in aq. soln., spectroph., 1131.
    in pharm. prep., in presence of phenacetin, amidopyrine and caffeine, by TLC - spectroph., 1687.
      iodim., 1688.
    in presence of benzocaine, column chrom. - spectroph., 1689.
    photom., 3525.
  identn., in presence of related drugs, by TLC - u.v. spectroph., 1692.
Phenelzine, detection, in urine, 1313C.
Phenethicillin, sepn. from phenoxymethylpenicillin and propicillin, paper chrom., 1675.
Phenethylamine, deriv. of, identn., in biol. materials, 1313C.
—, 2,5-dimethoxy-α,4-dimethyl-, detection, in pharm. prep., by TLC or GLC, 3763.
Phenetidine, detmn., volum., 1130.
Phenetole, 4-nitro-, detmn., in mixtures with 1-chloro-4-nitrobenzene, 4-nitroanisole or 4-nitrophenol, by thermal analysis, 3544.
Pheniodol, detmn., in soln., u.v. spectroph., 3783.
Phenobarbitone, detection, by TLC, colour reagent for, 2369.
  detmn., in barbiturate mixtures, by preparative TLC - volum., 2371.
    in tablets containing codeine phosphate, amidopyrine, phenacetin and phenolphthalein, 485.
    volum., automated, 3758.
  differentiation of polymorphic forms of, i.r. spectroph. or X-ray powder diffractom., 1681.
  identn., in urine, by TLC, 3623.
    i.r. spectroph., 1680.
  sepn. from adiphenine, amidopyrine and allobarbitone, in pharm. tablets, by TLC, 482.
    from other barbiturates or thiobarbiturates, by TLC, 1127.
Phenol, detmn., by chloroacetylation and microcoulom. GLC, 919.
    in mixtures with its derivatives, potentiom., 2192.
    of impurities in, by GLC, 1468.
—, 4-amino-, sepn. and identn., in presence of aniline, paper chrom., 3541.
—, t-butyl-4-methoxy-, detmn., in breakfast cereals, by GLC, 3063.
—, 2,5-dichloro-4-iodo-, detmn., in milk, in presence of iodofenphos, column - gas chrom., 1167.
—, 2,2′-methylenebis(4,6-di-t-butyl)-, detmn., paper chrom., 2258.
—, 4-nitro-, detmn., in canned peaches, in presence of parathion and paraoxon, by TLC - oscillopolarogr., 1749.
      in mixtures with 4-nitroanisole or 4-nitrophenetole, by thermal analysis, 3544.
—, pentachloro-, detection, in natural water, by GLC, 573.
    detmn., in natural rubber latex, by TLC, 1523.
      in presence of hexachlorophane and of other phenols, gravim., 1501.
      in wood, X-ray spectrogr., 2233.
—, 2-phenyl-, detmn., in 'pure' and polluted water, by direct-injection GLC, 3874.
    identn., in urine, in presence of related biphenyl metabolites, by TLC - u.v. spectroph., 3639.
—, 4-phenyl-, identn., in urine, in presence of related biphenyl metabolites, by TLC - u.v. spectroph., 3639.
—, trichloro-, detmn., in industrial wastes, in presence of chlorobenzene, by solvent extraction - GLC, 3890.
      in presence of hexachlorophane and other phenols, gravim., 1501.
Phenol derivatives, polyethoxylates of alkyl-, measurement of biodegradation of, by TLC, 3572.
Phenolic acids. (See *Carboxylic acids, phenolic.*)
Phenolphthalein, detmn., in tablets containing codeine phosphate, amidopyrine, phenacetin and phenobarbitone, 485.
Phenols, analysis of products of thermal cracking of, by GLC, 2829.

Phenols,—*continued*
  detection, on TLC plates, use of Br vapour in, 3706.
  detmn., in aq. soln., kinetic method for, 3531.
    in malt, spectroph., 3069.
    in natural water, by GLC, 572.
    in river water, by GLC, as pentafluorobenzyl ethers, 1827.
    in smoked meat products and cheese, paper chrom. - spectroph., 502.
    of OH content of mixtures of, by NMR, 239.
  identn., on paper chromatograms, 1469.
Phenols, derivatives of, alkyl, detmn., volum., by reaction with ICl, 275.
  alkyldinitro-, sepn., in dinocap. by GLC, 554.
  halo-, detection, by TLC, 277.
  nitro-, detection, by TLC, 277.
Phenolsulphonephthalein, detmn., in biol. tissues, by aq. extraction, accuracy of, 2287.
Phenothiazine derivatives, detmn. and identn., colour reactions for, review, 2995.
    colorim. or u.v. spectroph., automated, 2996.
  identn., in urine, 1003.
  sepn. and identn., in biol. materials, 1693.
Phenoxanthin-3-one, 3- and 4-amino-, detmn. of deriv. of, potentiom., 2825.
Phentermine, identn., in ^2H_2O soln., by NMR, 1702.
Phenthoate, detmn., in citrus fruits, simult. with dimethoate, colorim., 525.
Phentolamine, identn., in presence of tolazoline, antazoline and naphazoline, by TLC, 3784.
Phenylbutazone, identn., by oxidation with alkaline $KMnO_4$ soln. and detmn. as azobenzene, 1690.
    in presence of related drugs, by TLC - u.v. spectroph., 1692.
Phenylenediamine, detmn., photom., 1465.
o-Phenylenediamine, detmn., amperom., 282.
***p*-Phenylenediamine,** detmn., in presence of *o*- or *m*-isomer, complexom., 3538.
—, ***NN*-diethyl-,** detmn., volum., 924.
Phenylephrine, detmn. in mixtures with paracetamol, codeine phosphate, and mepyramine maleate, column chrom. - spectroph., 1134.
    in presence of polyacrylamide or other polymers, spectroph., 3767.
Phenytoin, detmn., by TLC, 1679.
    in blood and urine, u.v. spectroph., 1554.
    in blood serum, by GLC, 1002.
Phloroglucinol, sepn. from other phenols and aldehydes, by GLC, 274.
Phorate, detmn., spectroph., automated, 1807.
Phosgene, detmn., in gases, by light-scattering, apparatus for, 3120 P.
Phosphate, detmn., by pptn. as Zr phosphate and complexom., 2066.
    gravim., as zirconyl phosphate, 2687.
    in air, ring colorim., 1816.
    in biol. fluids, in presence of adenosine triphosphate, spectroph., 1083.
    in natural water, spectroph., 1400.
    in soil, by ion exchange - volum., 541.
    in urine, atomic-absorption spectroph., 990.
    of inorg., in blood serum, modification of the Fiske - Subbarow method for, 362.
      and urine, spectroph., 2872.
      in presence of nucleotide-P, spectroph., 1638.
    of Pb in, by solvent extraction - atomic-absorption spectroph., 2688.
    of natural, in orange juice, gravim. or by ion exchange - volum., 3806.
    volum., 813.
Phosphate rock. (See under *Minerals, ores and rocks.*)
Phosphatides, detmn. of P in, comparison of methods for, 3086.
  fractionation of, by argentation TLC, 1585.
Phosphatidylcholine. (See *Lecithin.*)
Phosphatidylethanolamines, analysis, in brain, by TLC, with hydrolysis on the plate, 1028.
  detmn., in biol. tissues, by TLC - i.r. spectroph., 2305.
Phosphatidylglycerols, structural analysis, by GLC, 3668.
Phosphatidylserine, study of, by GLC, 1587.
Phosphatising solutions, detmn. of NO_2^- in, gasom., 2683P.
Phosphine, detmn., in absorbent soln., potentiom., 2447.
—, **dimethyl(phenyl)-,** sepn. of monobromo-isomers of, by GLC, 923.
Phosphine oxide, tris(2-methyl-1-aziridinyl)-, detmn. of H_2O in, i.r. spectroph. and by NMR, 326.
Phosphinic acid, phenyl-, paper electroph. behaviour of, 288.
Phosphite, detmn., sequentially with $H_2PO_2^-$, volum., 126.
Phosphoenolpyruvic acid, detection, on paper chromatograms, 1022.
Phosphoinositides, TLC of, 3669.
Phospholipids, analysis, by TLC and GLC, review of methods for, 3668.
  detection on TLC plates, spray reagent for, 2304.
  detmn., in brain, losses due to acetone solubilities of, 2912.
    of glycerol alk-1-enyl and alkyl ethers in, by TLC, 403.
  identn. of nitrogenous, i.r. spectroph., 3670.
  sepn. and detmn., by TLC, 2913.
    by TLC on alumina, 401.
Phosphonic acid, phenyl-, paper electrophoresis of, 288.
Phosphoric acid, solvent extraction of, in mixtures with HNO_3 and H_2SO_4, 1327.
Phosphoric acid derivatives, detection, on chromatograms, microbiol., 1634.
Phosphoric acid esters, acyl, detmn., photom., 399.
  diethyl *p*-nitrophenyl. (See *Paraoxon.*)
    i.r. spectra of, 2182.
  sepn. of biologically important, ion-exchange chrom., 1635.
  tributyl, detmn., volum., 1461.
Phosphorite, detmn. of Cd, Cu, Pb and Zn in, anodic-stripping voltamm., 1399.
Phosphors, zinc sulphate, detmn. of Co, Fe, Mn and Ni in, by neutron activation, 2613.
Phosphorus, detmn., as 12-molybdophosphate by conversion to Mo 8-hydroxyquinolinate, 2685.
    atomic-emission spectroph., 3404.
    in aluminium and magnesium, by neutron activation, 2702.
    in blood serum, spectroph., 2873.
    in cast iron, photom., 1422.
    in coal, volum., 882.
    in copper, by neutron activation, 2702.
    in fats and fatty oils, 1778.
    in feeding-stuffs, comparison of methods for preparing samples for, 3090.
    in iron, by neutron activation, 2702.
    in lubricating-oil additives, 3568.
    in minerals, ores or rocks, atomic-absorption spectroph., 3842.
      by neutron activation, 811.
    in nickel, by neutron activation, 2702.
      and its alloys, photom., 3470.

Phosphorus, determination—*continued*
in nucleotides, photom., 1637.
in org. compounds, by combustion, 144.
spectroph., 2781.
in pharm. prep., by O-flask oxidation, 457.
in phospho-silica films on silicon substrates, X-ray spectrogr., 3383.
in plants, simult. with N, automated, 363.
spectroph., 2265.
in presence of Si, spectroph., 2065.
in soil, photom., 1784.
automated, 2418, 3093, 3094.
in tin, by solvent extraction - photom., 116.
photom., 117.
of As in, photom., 812.
of inorg., in presence of thiamine and its deriv., spectroph., 1546.
of ^{32}P in air and rain water, in presence of ^{7}Be, ^{90}Sr, ^{210}Pb and ^{210}Po, radiochem., 563.
in tobacco plants, *in situ*, with Geiger-Mueller counter, 2874.
in urine, A.E.R.E. procedure for, 979.
sepn. of ^{32}P from elementary S, by adsorption on activated carbon, 2686.
Phosphorus compounds, column chromatography of ^{32}P-labelled, application of Cerenkov counting in, 3924.
Phosphorus sulphides, analysis of alkaline hydrolysates of P_4S_3 and P_4S_7, 3408.
Phosphorus tri-iodide, detmn. of free I in, spectroph., 125.
Photography, elimination of secondary internal reflection on glass-backed plates, 3184.
Photometry, apparatus for, 4017.
for ultra-micro scale, 2517.
flow-through cell for, 1283, 1284.
use of cylindrical cells with a FEK-M absorptiometer, 4015.
of interference filters with Unicam SP 1300 colorimeter, 4016.
Photometry, atomic-emission, gas burners for, 3202P.
instrument for, 3201P.
sampling for, apparatus for, 1842.
Photomultipliers, distribution of sensitivity over the cathodes in, wavelength dependence of, 2480.
Phthalic acid esters, detection, on thin-layer chromatograms, by fuchsine dyes, 2197.
detmn., in presence of other esters, spectroph., 2256.
Phthalic anhydride, 4,5-dimethyl-, detmn., in pyromellitic dianhydride, spectroph., 2196.
Phthalimide, *N*-vinyl-, NMR and i.r. spectra of, 2208.
Physostigmine, identn., in presence of strychnine and brucine, by TLC, 2977.
Phytane, detmn., in shark-liver oil, by GLC - mass spectrom., 536.
Picoline, sepn. of 3- and 4- from 2,6-lutidine, paper electroph., 2821.
3-Picoline, detmn., in presence of its oxidation products, polarogr., 931.
Picropodophyllin, detmn., in presence of podophyllotoxin, by TLC - spectroph., 1672.
Pigments, inorganic, analysis of ancient red lakes, 1502.
detmn. of water-sol. matter in, conductim., 2849.
Pigments, plant, identn. of fungal, by TLC, 3719.
isoelectric focusing of, 1071.
sepn., comparison of column and thin-layer chrom. methods for, 3717.
Piperazine, sepn. from morpholine, by GLC, 3559.
—, **1,4-bis(3-bromopropionyl)-2-methyl-,** detmn., in pharm. prep., volum. or amperom., 1145.
Piperazine, 1,4-bis(3-chlorobutyryl)-, detmn., in pharm. prep., volum. or amperom., 1145.
—, **1,4-bis[2-(*N*-ethylpiperidino)propionyl]-,** di-iodide, detmn., argentim. or non-aq. volum., 1146.
—, ***N*-methyl-,** analysis of by-products in prepn. of, by GLC, 3559.
Piperidine, tetramethyl-, sepn. from related compounds, by TLC, 3828.
Piperidin-1-ol, sepn. from related compounds, 3828.
Piperidin-4-ol, tetramethyl-, sepn. from related compounds, by TLC, 3828.
Piperidin-4-one, tetramethyl-, sepn. from related compounds, by TLC, 3828.
Piperylon, identn., in presence of related drugs, by TLC - u.v. spectroph., 1692.
Pipettes. (See *Laboratory apparatus.*)
Pipobroman, detmn., in pharm. prep., volum. or amperom., 1145.
Placenta, sepn. of proteins of, electroph., 1620.
Plant extracts, detmn. of organophosphorus pesticides in, by GLC, clean-up procedure for, 3866.
Plants. (See also *Leaves.*)
analysis, apparatus and method for tissue dissolution by combustion in O, 2265.
detmn. of Al in, by neutron activation, 1C.
spectroph., 2865.
of amino-acids in, automated, 2935.
of arbutin in, paper chrom., as quinol, 2906.
of chlorfenvinphos in, in presence of its breakdown products, by GLC, 2427.
of chlorogenic acid in, by column chromatography on poly(vinylpyrrolidone) and GLC, 2908.
of Co in, oscillopolarogr., 999.
of Cu in, by neutron activation, 351.
of dimexan in, spectroph., 545.
of F in, 3096.
of Mn in, colorim., 1780.
of nucleotides in, fluorim., 437.
of pesticides in, clean-up method for, 1828.
of P and N in, automated, 363.
of starch in, spectroph., interference with anthrone reaction by $HClO_4$ used as solvent, 2897.
of Sr in, column chrom. - flame photom., 355.
X-ray spectrogr., 3606.
of trace elements in, spectrogr., 2857.
of trace metals in, by HCl extraction - atomic-adsorption spectroph., 2266.
spectrogr., 1176, 1533.
of Zn in, atomic-absorption spectroph. or polarogr., 356.
Plasmalogens, detmn., in phosphatides of beef heart, by reaction TLC, 1586.
Plasminogen, assay, in blood plasma, enzymic - spectroph., 426.
Plasticisers, detection and detmn., in poly(vinylidene chloride) film, by TLC and GLC, 3011.
detmn., in milk in contact with synthetic rubber, by GLC, 1733.
sepn. and identn. of isomeric aliphatic, by urea adducts, 3595.
gel-permeation chrom., 969.
Plastics. (See also *Polymers; Resins, synthetic.*)
analysis of antistatic materials in, by TLC, 2847.
detmn. of cresols in, spectroph., 3594.
identn. of plasticisers in, by TLC, 334.
thermal analysis of, 1511.
thermo-, identn., 333.
Platinum, detmn., by neutron activation and reduction on mercury, 2601.
substoicheiom. 1C.

Platinum, determination—*continued*
    gravim., 200, 876.
    in minerals, ores or rocks, by neutron activation, 2568.
    of Au, Ir, Os and Ru in, by neutron activation, 2758.
    of impurities in, spectrogr., 3478.
    of Rh in concentrates of, photom., 1425.
    photom., 2136, 3477.
    simult. with Pd, Rh and Au, atomic-absorption spectroph., 1974.
  sepn., together with Pd, from Ir and Rh, by solvent extraction of diantipyrinylmethane complex, 200.
    from other metals, by ion exchange, 2759.
  solvent extraction of Pt^{IV} from acid soln., 706.
Platinum, reagents for, dithio-oxalic acid, K salt, 2136.
  5-mercapto-1,3,4-thiadiazoline-2-thione, 3477 .
Platinum alloys, detmn. of impurities in Pt - Rh, spectrogr., 3478.
Platinum-group metals, anion-exchange behaviour of, in HCl - org. solvent media, 40.
  concn. of, by ion exchange, 3471.
  detmn., by catalytic method, 2569.
  sepn. of Pt^{IV} - Ru^{III} - Cu^{II} from Au^{III} - Pd^{II} - Cu^{II}, electroph., 2548.
Plums, detmn. of quassin in, by TLC - u.v. spectroph., 3060.
Plutonium, detmn., amperom., 789.
    comparison of methods for, 3375.
    of alpha-active in urine, A.E.R.E. procedure for, 979.
    of impurities in, spectrogr., 3376.
    of Pu^{IV} in urine, in presence of U^{VI} and Np^{IV}, 3612.
    of ^{236}Pu in ^{238}Pu, by alpha-pulse-height analysis, 2044.
    of ^{239}Pu in urine, A.E.R.E. sampling procedure for, 2274.
    of U in, oscillopolarogr., 2660.
    of ^{133}Xe and ^{133m}Xe from irradiation of ^{239}Pu, spectrogr., 2656.
    spectroph., 2042.
  sepn. from actinides and fission products, by solvent extraction, 2646.
    of impurities from, column chrom., 790.
Plutonium(IV) nitrate, detmn. of free acid in, electrom., 2659.
Plutonium(IV) oxide, detmn. of ^{137}Cs, ^{144}Ce, ^{95}Nb, ^{103}Ru, ^{106}Ru and ^{95}Zr in, gamma-spectrom., 2661.
    of Pu in, by fusion - coulom., 2658.
Plutonium salts, detmn. of free acid in soln. of, 2043.
Podophyllotoxin, detmn., in presence of picropodophyllin, by TLC - spectroph., 1672.
Polarography, a.c., amplifier potentiostats for, 4021.
    at stationary Hg electrode, sensitivity of, 30.
  1968 annual review, 677.
  fast-sweep derivative, use of on-line digital computer in, 1924.
  inorg., review, 2545.
  modular solid-state unit for, 3238.
  oscillographic, automatic detmn. of concn. of solns. by, 3229.
    calculation of results in, 4022.
    unit for conversion to cathode-ray polarography, 662.
  radiometric technique for, 661.
  review, 659.
  system for, 3239P.
Polonium, detmn., in air-borne dust, by electrochem. displacement and alpha-counting, 1197.
Polonium, determination—*continued*
    of ^{210}Po in air and rain water, in presence of ^{7}Be, ^{32}P, ^{90}Sr and ^{210}Pb, radiochem., 563.
      in biol. tissues, by alpha-counting, effect of dry-ashing of sample on, 995.
      in lead, radiom., 2057.
      in urine, A.E.R.E. procedure for, 979.
Polyamides, detmn. of N in, mercurim., 3586.
Polyamines, detmn., in biol. tissues, ion-exchange - thin-layer chrom. - spectroph., 415.
Polycaprolactam. (See also *Nylon.*)
    analysis of extracts of, gravim. and interferom., 1509.
    detmn. of O-uptake of, by use of ^{18}O, 2238.
Polyesters, detmn. of acidity constants of, non-aq. potentiom., 2846.
Polyethylene, analysis of combustion products of, mass spectrom. - u.v. spectroph., 2240.
    detmn. of antistatic additives in, by GLC, 1515.
      of Cl and volatile S in, by combustion, 327.
      of mol. size distribution of, column chrom., 1510.
Poly(ethylene terephthalate), column and thin-layer chromatography of, 967.
    detmn. of functional end-groups in, by isotopic exchange, 968.
Polyindene, analysis, by pyrolysis - GLC, 2842, 3598.
Polyisoprene, detmn. of cyclic units in, i.r. spectroph. 973.
Polymers. (See also *Copolymers; Elastomers; Resins, synthetic.*)
    acrylic, detmn. of acid groups in, potentiom., 963.
    analysis, by pyrolysis - GLC, conditions for, 1512, 1513.
    containing B and Si, detmn. of C and H in, by combustion - GLC, 1436.
    detmn. of metals in, X-ray spectrogr., 2248.
      of mol. size distribution of, column chrom., 1510
    identn., by thermogravimetry - GLC, 3587.
    thermal analysis of, 1511.
Poly(methacrylic acid), detmn. of methacrylic acid in, oscillopolarogr., 2840.
Poly(methyl methacrylate), analysis, by pyrolysis - GLC, 2842.
Poly(α-methylstyrene), analysis, by pyrolysis - GLC, 3598.
Polymyxin, detmn. of B in formulations, ion-exchange chrom. - spectroph., 1118.
    sepn. of B, D, E and M, by TLC, 1677.
Polyolefins, identn. of trace elements and additives in, 3589.
Polyols, detmn., by acetylation, 2164.
      in presence of sugars, by GLC of silylated products, 3504.
    sepn. from aldehydes and sugars, ion-exchange chrom., 1449.
Polyoxyethylene glycols, detmn., coulom., 2580.
      in intestinal perfusate, i.r. spectroph., 2891.
    GLC of, 964.
Polyoxyethylenes, analysis, chrom., 2226.
    nonylphenol ethers, analysis, by TLC, 1494.
Polypeptides, detmn., by pyrolysis - GLC, 2166.
Polyphenyls, analysis of mixtures of, by GLC, 3530.
    detmn. of P in, comparison of methods for, 2780.
    methyl-substituted, sepn., gel-chrom., factors affecting efficiency of, 3925.
Polyphosphates, detmn., ion-exchange chrom., automated, 2067.
    sepn., and detmn., by TLC, 3576.
      ion-exchange chrom., 2689.
Polypropene, detmn. of hydroperoxides in, 2837.
Polysaccharides, analysis of KIO$_4$-oxidation products of, by GLC of silylated deriv., 3504.
    identn., by GLC - i.r. spectroph., 1576.

Polystyrene, analysis, by pyrolysis - GLC, 2842, 3598.
detmn., in explosives, by pyrolysis - GLC, 2852.
of mol. size distribution of, column chrom., 1510.
of residual monomers in, by GLC and polarogr., 2839.
and other hydrocarbons in, by GLC, 328.
identn. of trace elements and additives in, 3589.
sepn. of microspheres of, by centrifugal elutriation, apparatus for, 2263.
Poly(vinyl alcohol), detmn. of S in, potentiom., 3590.
Poly(vinyl chloride), detmn. of 2-hydroxybenzophenone deriv. in, by TLC, 3596.
Poly(vinylidene chloride), detmn. of plasticisers in films of, by TLC and GLC, 3011.
Populus tremula, identn. of phenolic glucosides of, by gel filtration or TLC, 1669.
Porosity, detmn. of apparent density of porous materials, 4041.
low-pressure mercury instrument for, 1944.
Porphyrins, dicarboxy-, sepn. from related porphyrins, in urine, by TLC on talc, 1075.
sepn., by TLC on cellulose, 3718.
from haemin and lipids, by TLC as methyl esters, 2949.
Potassium, detmn., biamperom., 3322
by solvent extraction - spectroph., 3288.
in biol. fluids, flame photom., 3608.
elimination of Na interference in, 983.
in biol. tissues, in presence of Na, flame photom., 3607.
in blood serum, collaborative study of, 2268.
volum., 996.
in fertilisers, flame photom., extractant for, 3102.
in natural water, by solvent extraction - volum., 2438.
in plants, X-ray spectrogr., 3606.
in urine, ion-specific electrode for, 2856.
internal capillary glass electrodes for, 3233.
of isotopic ratios in, mass spectrom., 48.
of ^{40}K in, by measurement of β-activity, 2581.
sepn. from Na, column chrom., 1848P.
of ^{42}K from other radioisotopes, by adsorption on Dowex 1-X8, 3277.
Potassium chloride, detmn. of K in, coulom., 2580.
Potassium dichromate, analysis of NBS standard, mass spectrom., 1982.
detmn., amperom., by titration with Fe^{2+}, effect of daylight on, 1983.
Potassium ferrocyanide, detmn., in common salt, photom., 3810.
Potassium guaiacolsulphonate, detmn., in pharm. compound powders, gravim., 496.
Potassium hexafluorosilicate, detmn., potentiom., 3380.
Potassium iodate, detmn., in KNO_3 - $NaNO_3$ eutectic at 250°, coulom., 1981.
Potassium permanganate, detmn., amperom., 3269.
Potassium polyphosphate, paper-chrom. study of hydrolysis products of, 3323.
Potassium tantalate, recovery of K_3TaO_4 from K - Ta - O reaction, by vacuum distillation, 1346.
Potato starch, identn. of irradiated, by detmn. of deoxy-compounds in, photom. 3791.
Potatoes, detmn. of propham in, i.r. spectroph., 1796.
Poultry, detmn. of carbaryl in hen skin, 2896.
Powders, analysis of mixtures of, by colour difference, photo-sensitive transformer bridge for, 4018.
Praseodymium, sepn. from Nd, by TLC, 3368.
Precalciferol, detmn., in pharm. prep., in presence of tachysterol, by TLC, 3752.
Precipitation, from homogeneous soln., role of nucleation in, 1950.
Prednisolone 21-(hydrogen succinate). (See *Predonine.*)
Prednisone, detmn., in pharm. prep., in presence of fluocinolone acetonide and paramethasone acetate, by TLC - spectroph., 3778.
Predonine, detmn., in brain, spectroph., by modified Silber – Porter procedure, 2885.
5β-Pregnane-3α,20α-diol, detmn., in urine, removal of chromogens in, 1313C.
simult. with 3α-hydroxy-5β-pregnan-20-one, by GLC as trimethylsilyl ethers, 2920.
5β-Pregnane-3α,20β-diol, sepn. from progesterone and testosterone, by TLC, 405.
5β-Pregnane-3α,17,20α-triol, detmn., in blood plasma, fluorim., 1042.
in presence of 3α,17,20α-trihydroxy-5β-pregnan-11-one, column - gas chrom., 3674.
Pregnanetriolone. (See 5*β-Pregnan-*11-*one,* 3α,17α, -20α-*trihydroxy-*.)
Pregnanolone. (See 5*β-Pregnan-*20-*one,* 3*α-hydroxy-*.)
5β-Pregnan-11-one, 3α,17,20α-trihydroxy-, detmn., in blood plasma, fluorim., 1042.
in urine, in presence of 5β-pregnane-3α,17,20α-triol, column - gas chrom., 3674.
5β-Pregnan-20-one, 3α-hydroxy-, detmn., in urine, simult. with 5β-pregnane-3α,20α-diol, by GLC as trimethylsilyl ethers, 2920.
Pregn-4-ene-3,20-dione. (See *Progesterone.*)
Pregn-4-en-3-one, 20-hydroxy-, mass spectrum of, 2915.
Preserves, detmn. of Cr in, spectroph., 1723.
Pristane, detmn., in shark-liver oil, by GLC - mass spectrom., 536.
Procaine, detmn., in injections, photom., 3766.
Prochlorperazine dimaleate, sepn. from related phenothiazine deriv., by TLC, 1694.
Progesterone, detmn., in urine, by GLC, 2310.
fluorescence reactions of, conditions for, 1037.
hydroxy-deriv. of, detmn. of the position of OH-groups in, mass spectrom., 2915.
sepn. from related steroids, in urine, ion-exchange chrom., 1032.
from testosterone and pregnane-3α,20β-diol, by TLC, 405.
^{3}H-labelled, detmn., in blood plasma, by TLC - scintillation spectrom., 1038.
Proline, hydroxy-, detmn., in leather, photom., automated, 346.
Promazine, detmn., in pharm. products, volum., 2376.
Promethazine, detmn., in pharm. products, volum., 2376.
in urine, spectroph., 2995.
Propane, detmn. of H_2O in, by GLC, 2225.
—, 1-bromo-3-chloro-2-methyl-, detection, in presence of 2-bromo-1-chloro-2-methyl-, i.r. spectroph., 2156.
Propanidid, detmn., in blood, 1313C.
Propanol, detmn., in aq. soln., thermom., 237.
in potable spirits, in presence of isobutyl and isopentyl alcohols, by GLC, 3077.
Propan-2-ol, 1-chloro-, detmn., in fumigated foods, by GLC, 1752.
Propan-2-one, phenyl-, identn., in presence of propiophenone, by TLC, 3535.
Propellents, detmn. of ethylene dimethacrylate and camphor in, by GLC, 978.
Propene, analysis of oxidation products of, by GLC, 3497.
detection of acetylenes in, column chrom., automated, 891.
Propham, detmn., in potatoes, i.r. spectroph., 1796.

Propicillin, sepn. from phenoxymethylpenicillin and phenethicillin, paper chrom., 1675.
Propionaldehyde, detmn., in mixtures with olefin oxides, by GLC, 233.
Propionic acid, 3-phenyl-, sepn. from other phenylalkanoic acids, by TLC of anilides, 3655.
Propiophenone, identn., in presence of phenylpropan-2-one, by TLC, 3535.
Propoxur, detmn., in tobacco and tobacco smoke, by solvent extraction - TLC, 3638.
Propylene oxide, analysis of copolymers with ethylene oxide, i.r. spectroph., 2241.
  detmn., in mixtures with aldehydes, by GLC, 233.
    in non-ionic surfactants, 1495.
Protactinium, detmn. of ^{231}Pa, in urine, A.E.R.E. procedure for, 979.
  solvent extraction of, as benzeneseleninate, 2031.
    from alcoholic mineral acid media, 3369.
Protein hydrolysates, sepn., ion-exchange chrom., loss of aspartic and glutamic acids in, 1055.
    of 5-dimethylaminonaphthalene-1-sulphonyl-deriv. of amino-acids in, by TLC, 422.
Proteins. (See also *Glycoproteins; Lipoproteins.*)
  agarose gel electrophoresis of, fixation with picric acid in, 3712.
  detection, in fluids, test composition for, 3708P.
  detmn., by membrane filtration - spectroph. or radiom., 3710.
    in c.s.f., spectroph., by modified biuret method, 425.
    in chocolate, buttermilk or cream, by dye-binding method, 3034.
    in flour, colorim., 507.
    in milk, absorptiom., 3033.
      spectroph., 3032.
    in plants, in presence of u.v.-absorbing impurities, u.v. spectroph., 424.
    in 1 to 100 ng range, gel electroph. on polyacrylamide, 2943.
    of amino-acids of maize-kernel, automated, 3832.
    of N-terminal amino-acids in, chrom. - spectroph., as 4-nitropyridyl 1-oxide deriv., 2932.
  dialysis of, apparatus for, 1837.
  fractionation of leaf, by solvent extraction - electroph., 1614.
    of wheat flour, by modified Maes continuous extraction method, 3834.
  sepn., by gel electrophoresis, on acetylated starch, 1069.
      on Ampholine - polyacrylamide, 1070.
      on polyacrylamide, 1617.
    by isoelectric focusing on sucrose columns, 3711.
    electroph., automated, 1888.
    in snake venoms, gel electroph., on polyacrylamide, 1619.
    of placental, electroph., 1620.
    of traces of glycine, proline and hydroxyproline from gelatin, by GLC, 427.
    paper chrom. - densitom., influence of type of paper on, 3709.
Proteins, blood-serum, detmn., by TLC, membrane filters for, 1615.
    electroph., on cellulose acetate strip - photom., 2942.
  fractionation of, by counter-current distribution, centrifuge for, 589.
Pseudomonas fragi, GLC of esters produced by, 3038.
Psychotomimetic drugs, identn., in blood and urine, by TLC, 1005.
Purine derivatives, sepn., by TLC, 433.
Putty, linseed oil, B.S.I. specification for, 339 ,
Pyramidon. (See *Amidopyrine.*)
Pyran-2,4-dione, 3-[1-(phenethylamino)ethylidene]-6-methyl-, detmn., spectroph., 1473.
Pyrazinamide, detmn., in pharm. tablets. volum., 1140.
Pyrazolecarboxamides, i.r. absorption of carbonyl group in, 2148.
Pyrazoline, deriv. of, detmn., spectroph., 2178.
Pyrazolin-5-one, 3-methyl-1-phenyl-, detection, 1477.
Pyrene, detmn., by electroluminescence, 2817.
    fluorim., 3554.
  sepn. from other polycyclic hydrocarbons, by TLC, 291.
Pyridine, detection, spot test for, 293.
  detmn., in presence of its oxidation products, potentiom., 294.
  isotopic analysis of deuterated, by GLC, 248.
—, 3-amino-, detmn., photom., 2209.
Pyridine bases, detmn. of org. bases in higher, potentiom., 948.
Pyridine derivatives, detection, spot test for, 293.
  sepn. of homologues, by GLC, 1481.
Pyridinecarboxamides, GLC of, 295.
Pyridinecarboxylic acids, detmn., non-aq. potentiom,. 933.
  GLC of, 295.
4-Pyridone, 2,6-dimethyl-1-phenethyl-, detmn., in presence of 2,6-bis(phenethylamino)hepta-2,5-dien-4-one, spectroph., 1473.
Pyridoxal, assay, microbiol., in presence of pyridoxamine, error in, 2342.
  sepn. from compounds of vitamin-B$_6$ group, by TLC, 1092.
      in blood and urine, column chrom. - fluorim., 2959.
Pyridoxal 5-phosphate, sepn. from compounds of vitamin-B$_6$ group, by TLC, 1092.
      in blood and urine, column chrom. - fluorim., 2959.
Pyridoxamine, assay, microbiol., in presence of pyridoxal, error in, 2342.
Pyridoxamine, sepn. from compounds of vitamin-B$_6$ group, by TLC, 1092.
      in blood and urine, column chrom. - fluorim., 2959.
Pyridoxamine phosphate, sepn. from other vitamin B$_6$ components, in blood and urine, column chrom. - fluorim., 2959.
Pyridoxic acid, sepn. from other vitamin B$_6$ components, in blood and urine, column chrom. - fluorim., 2959.
Pyridoxine (*Vitamin-B$_6$ group*), sepn. by TLC, 1092.
Pyridoxine hydrochloride, detmn., in pharm. prep., colorim., 3785.
Pyridoxol, detmn., in multi-vitamin tablets, spectroph., automated, 2985.
    in pharm. prep., automated, 2986.
  sepn. from compounds of vitamin-B$_6$ group, by TLC, 1092.
      in blood and urine, column chrom. - fluorim., 2959.
Pyrilamine. (See *Mepyramine maleate.*)
Pyrimidine, 4-amino-2-methyl-5-phenethyl-, detmn., gravim., 2392.
Pyrimidine derivatives, behaviour on micro-sublimation of, 434.
  i.r. spectra of polysubstituted, 2210.
  sepn., by GLC, 433.
Pyrite, analysis, X-ray spectrogr., 880.
Pyrogallol, sepn. from other phenols and from aldehydes, by TLC, 274.
Pyromellitic dianhydride, detmn. of 4,5-dimethylphthalic anhydride in, spectroph., 2196.
    of pyromellitic acid in, 3592.

yrotechnic compositions, detmn. of free Mg in, by H evolution and GLC, 2262.
yrrolidine, 1-hydroxy-, sepn. from related compounds, by TLC, 3828.
yrrolidin-2-one, 1-vinyl-, NMR and i.r. spectra of, 2208.
yruvic acid, detection, on paper chromatograms, 1022.
 detmn., in blood, enzymic - spectroph., 387.
  in presence of other org. acids, by GLC, temp. programmed, 3656.
yruvic acid 2,6-dinitrophenylhydrazone, purification of deriv. of, ion-exchange chrom., 255.
 sepn. of deriv. of, by GLC, 2158.
  of thio-esters of, by TLC, 267.
yruvic acid methoxime, sepn. from methoximes of oxalacetic and 2-oxoglutaric acids, by TLC, 3657.

Q

ualitative analysis, identn. of groups by fractional pptn., 12.
 of inorg. cations, by TLC, 1324.
 use of matrine *N*-oxide in, 1325.
uartz, detmn., by DTA, 2139.
  of α-, in mixtures with NaF, by X-ray diffraction, 879.
 synthetic, with high u.v. transmission, 4003.
Quassin, detmn., in plums, by TLC - u.v. spectroph., 3060.
Quaternary ammonium compounds. (See *Ammonium compounds, quaternary.*)
Quaterphenyl, detmn., in mixtures with biphenyl and terphenyl, by GLC, 3530.
Quebracho, detmn., in tannin extracts, by TLC, 975.
Quercetin, detmn., in pharm. mixtures with rutin, and hesperidin methyl chalcone, column chrom. - spectroph., 470.
  in pharm. prep., spectroph., 1125.
Quercitrin, detmn., in pharm. prep., spectroph., 1125.
Quinalbarbitone, detmn., in a lipid system, by solvent extraction - spectroph., 3624.
 identn., i.r. spectroph., 1680.
Quinestrol, detmn. and evaluation of stability of, by GLC, 2388.
Quinine, detmn., non-aq. volum., indicators for, 2541.
 surfactant effect on solubility in H_2O, 1109.
Quinol, detmn., amperom., 3271.
  of impurities in, spectrogr., 921.
Quinoline, detmn., in presence of its oxidation products, potentiom., 294.
Quinoline, 5,7-dibromo-8-hydroxy-, detmn., gravim., by reaction with 1-fluoro-2,4-dinitrobenzene, 2381.
—, 8-hydroxy-, detmn., gravim., by reaction with 1-fluoro-2,4-dinitrobenzene, 2381.
Quinoline derivatives, GLC of, comparison of solid supports for, 279.
 paper chromatography of, 3561.
Quinolylcarbamic acid, deriv. of, i.r. spectrophotometry of, 1485.
Quinones, detmn., volum., 2199.
 sepn. of isoprenoid, from tocopherols, in wheat, column chrom., and detmn., spectroph., 3833.
Quinoxaline 1-oxide, deriv. of, paper chromatography of, 1484.

R

RNA. (See *Nucleic acid, ribo-.*)
Raceophenidol, detmn., in feeding-stuffs, spectroph., 3112.
Radiation, beta-, measurement of very low levels of, 1931.
 thermoluminescence dose meter for, 2526.
Radioactivation analysis. (See also *Radiometric analysis.*)
 application of replacement sub-stoicheiometry in, 1930.
—, by neutrons, applications in medicine, 1C.
 report of conference on, 1.
 sensitivities in, 696.
 use of dual sample - biaxial rotating assembly with pneumatic tube transfer system, 674.
  of superimposed ion-exchange columns in, 2528.
 with gamma-ray spectrometry, computation of Ge(Li) detector peak areas in, 4027.
—, by photons, sensitivity of, on a betatron with internal target, 4026.
 use of electromagnetic radioisotope separator for, 4025.
Radioactivity, detmn., automated, adaptation of computer for, 1933.
Radioisotopes, analysis, by gamma-ray spectrometry and computer, 675.
 detmn. of impurities in, spectrogr., 1891.
  of short-lived, resolution of gamma-ray scintillation spectra of, by GLC, 2527.
 solvent extraction of, detmn. of yield by standard addition, 669.
Radiometric analysis. (See also *Radioactivation analysis.*)
 1968 annual review, 677.
 sensitivity of, 2524.
Radium, detmn. of ^{224}Ra in minerals, ores or rocks, by measurement of ^{220}Rn, 795.
  of ^{226}Ra in urine, A.E.R.E. procedure for, 979.
 sepn. of ^{228}Ra from ^{212}Bi, column chrom., 31.
Radon, extraction of, by use of ultrasonics, 2030.
Raffinose, detmn., by oxidation with IO_4^-, 897.
Rain water. (See *Water, rain.*)
Raman spectrometry. (See *Spectrometry, Raman.*)
Rare-earth metals. (See also *Lanthanides.*)
 analysis, X-ray spectrogr., 1310C.
 detection, X-ray spectrogr., 1375.
  in salts, X-ray spectrogr., 1378.
 detmn., atomic-absorption spectroph., data for, 709.
  in gadolinite and tantalocolumbite, by neutron activation, 2640.
  in minerals, ores or rocks, by neutron activation, 2640.
   after chemical group separation, 1376.
   spectrogr., 89.
  of Ca, Cu, Hg or Zn in, by TLC, 3368.
  of Y in, spectroph., 2022.
  photom., 2638.
  spectroph., 88.
 sepn., by GLC, as chelates with 1,1,1,-trifluoro-5,5-dimethylhexane-2,4-dione, 90.
   as trifluoroacetylacetonates, 703.
  by thermal decomposition in O, 3367.
  electroph., and detmn., spectroph., 2639.
  from Sc, Th and U^{VI}, by TLC, 3357.
  of ternary mixtures of, by ion-exchange, with chelating eluents, 2023.
Rare-earth metals, reagents for, arsenazo AE, 88.
 arsenazo III, 2638.
 xylenol orange, 2639.
Rayon, colour reactions of squeezed fibre tips of, 962.
Reagents (*general*), analysis, spectrogr., removal of matrix effect in, 15.
 detmn. of azo-deriv. of chromotropic acid, paper chrom., 3582.
  of Cu in, photom., 903.

Reagents,—*continued*
  for metals, improvement in selectivity of, review, 11.
Reagents, organic. (Applications of the less-common reagents are included here. References to studies of specific reagents are included in the body of the text. See also *Indicators.*)
  alanate (Na diethyldihydroaluminate), 3492.
  2-aminocylopent-1-ene-1-carbodithioic acid, 2121.
  2-(4-amino-*N*-ethylanilino)ethanol, 2595.
  3-amino-5-hydroxynaphthalene-2,7-disulphonic acid, 132.
  5-amino-6-hydroxynaphthalene-2-sulphonate, 1546.
  5-amino-2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-phenol, 52.
  2′-aminotoluene-*p*-sulphonanilide, 3326.
  4-anilino-1-phenyl-1,2,4-triazolium chloride, 3463.
  5-anilino-1,3,4-thiadiazole-2-thiol, 1427, 3289.
  anthrapurpurin, 58, 746.
  arsenazo AE {2-[7-(3,8-disulpho-1-naphthylazo)-1,8-dihydroxy-3,6-disulpho-2-naphthylazo]-benzenearsonic acid}, 88.
  arsenazo III {2,2′-[(1,8-dihydroxy-3,6-disulphonaphthylene)bis(azo)]dibenzenearsonic acid}, 1978, 2034, 2638, 2657, 3370.
  azo-azoxy BN [2-hydroxy-2′-(2-hydroxy-1-naphthylazo)-5-methylazoxybenzene], 903, 2608.
  azulene, 2436.
  4-(benzenesulphonyl)benzohydrazide, 727
  benzoin, 115.
  2-(2-benzothiazolylazo)-1-naphthol, 1964.
  benzoylacetone, 2074.
  2,2′-bicinchoninic acid, 3609.
  1,2-bis(2-aminoethoxy)ethane-*NNN′N′*-tetra-acetic acid, 2265.
  bis(4-aminophenyl) sulphone, 3398.
  NN′-bis[1-(2-aminophenyl)ethylidene]ethylenediamine, 3467.
  NN′-bis[3-(2-carboxyethyl)-2-hydroxy-5-methylbenzyl]ethylenediamine, 1951.
  bis(2-ethylhexyl) hydrogen phosphate, 777, 778.
  bis(2-hydroxyethyl)dithiocarbamic acid, K salt, 2600.
  bismuthiols, 2069.
  4-bromo-3-hydroxy-2-naphthoic acid, 855.
  5-bromo-8-hydroxyquinoline-7-sulphonic acid, 2735.
  bromopyrogallol red, 780.
  N-bromosuccinimide, 270.
  calmagite [3-hydroxy-4-(6-hydroxy-*m*-tolylazo) naphthalene-1-sulphonic acid].
  2-(carbamoylthio)acetanilide, 186.
  chlorpromazine hydrochloride, 820.
  chlorsulphophenol R [4-(5-chloro-2-hydroxy-3-sulphophenylazo)-3-hydroxynaphthalene-2,7-disulphonic acid], 2019.
  chromotropic acid, 898, 2116, 2417.
  6-cyano-2,2′-bipyridyl, 1341.
  3-cyano-1,5-bis(2-hydroxy-5-sulphophenyl)-formazan, 87.
  dansyl chloride (5-dimethylaminonaphthalene-1-sulphonyl chloride), 2940.
  3,3′-diaminobenzidine, 2705.
  diantipyrinylmethane, 872, 2114, 2677.
  2,5-dibenzoyl-3,4-dihydroxyselenophen, 13.
  dibenzoylmethane, 3371.
  dibepin 2 {3-chloro-3-(10,12-dioxodi-indeno-[1,2-*b*:2′,1′-*e*]pyridin-11-yl)phthalide}, 908.
  3,5-dibromo-*p*-benzoquinonechlorimine, 3763.
  5,7-dibromo-8-hydroxyquinoline, 823, 838.
  2-(3,5-dibromo-2-pyridylazo)-5-diethylaminophenol, 3410.
  3,5-dichloro-*p*-benzoquinonechlorimine, 3638.

Reagents, organic—*continued*
  2,6-dichlorophenolindophenol, 3616, 3660.
  dicyclohexyl benzenesulphonylphosphoramidate, 2005.
  2-(1-diethylamino-1-methylethyl)dihydro-4-hydroxyfuran-3-one, 2537.
  diethyldithiocarbamic acid, diethylammonium salt, 2688.
    Na salt, 359, 360.
  NN-diethyl-*p*-phenylenediamine, 1825, 2986.
  2,4-dihydroxybutyrophenone, 3444.
  3,4-dihydroxyphenylazobenzoic acid, 768.
  dimercaptothiopyran-4-one, deriv. of, 796.
  3,3′-dimethoxy-*NN′*-disalicylidenebenzidine, 1972.
  3-(2,3-dimethoxyphenyl)-5-mercapto-1,3,4-thiadiazole-2-thione, 146.
  dimethylglyoxime, 3803.
  3,3′-dimethylnaphthidine, 131.
  NN′-dimethyl-*p*-phenylenediamine dihydrochloride, 1199.
  dimethyl(selenocarbamoyl)dimethyldiselenocarbamate, 2554.
  2,4-dinitrobenzenesulphonic acid, 1519.
  3,4-dinitrocatechol, 133.
  diphenylcarbazide, 3617.
  4,7-diphenyl-1,10-phenanthroline, 2278, 2880.
  OO-diphenyl phosphorodithioate, 1991.
  2-(diphenylacetyl)indane-1,3-dione, 1432.
  1,5-diphenylcarbazide, 834, 1723.
  di-2-pyridyl ketoxime, 3462, 3473.
  di(1-sodiotetrazol-5-ylazo)acetic acid, ethyl ester, 189.
  di-2-thienyl ketoxime, 1352.
  dithio-oxalic acid, K salt, 871, 2136.
  dithio-oxamide, 196.
  dithiosalicylic acid, 870
  ethacridine lactate, 3715.
  ethyl 1-hydroxy-2-naphthyl ketoxime, 1917.
  4-(2-ethyl-4,5-dimethoxyphenyl)butylamine, 50.
  3,3′-ethylene-4,4′-diphenyl-2,2′-biquinolyl, 731.
  4,4′-ethylidenebis(3-methylisoxazolin-5-one), 1426.
  ferroin, [tris(1,10-phenanthroline)iron^{II}], 6, 3347.
  ferron (8-hydroxy-7-iodoquinoline-5-sulphonic acid), 542, 3427.
  1-fluoro-2,4-dinitrobenzene, 3401, 3682.
  3-fluoro-4-nitropyridine *N*-oxide, 2932.
  formaldoxime, 109, 2851.
  furacyline (5-nitro-2-furaldehyde semicarbazone), 757.
  furil α-dioxime, 162.
  furoin α-oxime, 854.
  gallein (3′,4′,5′,6′-tetrahydroxyfluoran), 798.
  glyoxal bis(2-hydroxyanil), 353.
  haematoxylin, 2070.
  HEDTA [*N′*-(2-hydroxyethyl)ethylenediamine-*NNN′*-triacetic acid], 3362, 3363.
  homidium bromide, 1087.
  o-hydroxybutyrophenone oxime, 856.
  3-hydroxyflavone, 1409.
  5-hydroxy-6-[3-(1-methyl-2-piperidyl)-2-pyridylazo]naphthalene-1-sulphonic acid, 2006.
  4-hydroxy-3-nitrobenzenearsonic acid, 2052.
  3-hydroxy-1-nitro-2-naphthoic acid, 855.
  6-hydroxy-5-nitrosoquinoline, 2746
  4-hydroxyphenylacetic acid, 2291.
  N-hydroxyphthalimide, 2319.
  2-*p*-iodophenyl-3-*p*-nitrophenyl-5-phenyltetrazolium chloride, 386.
  kaempferol (3,4′,5,7-tetrahydroxyflavone), 2060, 3358.
  luminol (5-amino-2,3-dihydrophthalazine-1,4-dione, 2730.

eagents, organic—*continued*
- magneson IREA [5-chloro-2-hydroxy-3-(2-hydroxy-1-naphthylazo)benzenesulphonic acid], 3339.
- matrine *N*-oxide, 1325.
- mercaptoacetic acid, 3440.
- 3-mercaptoacrylic acid, 2124.
- 2-mercaptobenzothiazole, 2596.
- β-mercaptocinnamic acid, 2124.
- 3-mercaptocrotonic acid, 2124.
- β-mercaptohydrocinnamic acid, 2124.
- 5-mercapto-3-(2-naphthyl)-1,3,4-thiadiazole-2-thione, 146, 832.
- 3-mercaptopropane-1,2-diol, 2752.
- 5-mercapto-1,3,4-thiadiazoline-2-thione, 3477.
- 4-methoxybenzothiohydroxamic acid, 2567.
- *N*-methylanabasine-(α′-azo-6)-*m*-aminophenol. (see 5-*amino*-2-[3-(1-*methyl*-2-*piperidyl*)-2-*pyridylazo*]*phenol*.)
- *N*-methylanabasine-α′-azo-l-naphthol. {see 2-[3-(1-*methyl*-2-*piperidyl*-2-*pyridylazo*]-1-*naphthol*}, 3365.
- *N*-methylanabasine-α′-azo-linaphthol-5-sulphonic acid {see 5-*hydroxy*-6-[3-(1-*methyl*-2-*piperidyl*) 2-*pyridylazo*]*naphthalene*-1-*sulphonic acid*}.
- 3′-*O*-methylfluorescein phosphate, 3732.
- 2-[3-(1-methyl-2-piperidyl)-2-pyridylazo] heptylresorcinol, 187.
- 2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]-1-naphthol, 3365.
- morin, 797.
- naphthalene-2,3-diamine, 499.
- naphthalene-1,8-diol, 3458.
- 1,2-naphthaquinone-4-sulphonic acid, Na salt, 3001, 3884.
- naphthenic acid, 2604.
- naphthoresorcinol, 245.
- *N*-1-naphthyloxamic acid, 2585.
- neocuprizon {bis[(2-ethoxycarbonyl)-1-methylethylidene]oxalic acid}, 53.
- nitchromazo [3,6-bis(4-nitro-2-sulphophenylazo)-chromotropic acid], 2607.
- nitroanthranilazo [2-(3-methyl-5-oxo-1-phenylpyrazolin-4-ylazo)-5-nitrobenzoic acid], 1977.
- 5-nitrobarbituric acid, 1660.
- nitron (3,5,6-triphenyl-2,3,5,6-tetra-azabicyclo-[2,1,1] hex-1-ene), 736.
- 4-nitrophenyl 3-acetyl-2-benzylcarbazate, 1102.
- nitrosulphophenol R [3-hydroxy-4-(2-hydroxy-5-nitro-3-sulphophenylazo)-naphthalene-2,7-disulphonic acid], 3352.
- oxalic acid bis(ethylidenehydrazide), 61.
- *N*-phenylbenzohydroxamic acid, 801, 2657.
- 1-phenylbutane-1,2,3-trione 2-oxime, 1573.
- phenyldithioacetic acid, 3278.
- phenylfluorone (2,6,7-trihydroxy-9-phenyl-3*H*-xanthen-3-one), 864, 2740.
- 4-phenyl-2-(2-pyridylmethyleneamino)phenol, 1989.
- *N*-phenyl(thiobenzohydroxamic acid), 1349.
- phenylthiohydantoic acid. [see 2-(*carbamoylthio*)*acetanilide*.]
- phosphonazo R, 1978.
- picolinaldehyde 2-pyridylhydrazone, 197.
  - 2-quinolylhydrazone, 2566.
- picramine R [3-hydroxy-4-(2-hydroxy-3,5-dinitrophenylazo)naphthalene-2,7-disulphonic acid], 1990.
- pinacolylpyridinium bromide [1-(3,3-dimethyl-4-oxobutyl)pyridinium bromide], 3522.
- pivaloyltrifluoroacetone (see 1,1,1-*trifluoro*-5,5-*dimethylhexane*-2,4-*dione*.)
- prolinethymol blue, 2419.
- pyridine-2,3-diol, 2734.

Reagents, organic—*continued*
- pyridinium piperidine-1-carbodithioate, 2253.
- pyromellitic acid, 751.
- pyrrolidine-1-carbodithioic acid, NH$_4$ salt, 1969, 2869.
  - morpholinium salt, 1416, 2745.
- quercetagetin (3,3′,4′,5,6,7-hexahydroxyflavone), 2679
- quinoxaline-2-carboxylic acid, 1326.
- quinoxaline-2,3-dithiol, 868.
- β-resorcylaldehyde acetylhydrazone, 773.
- rhodizonic acid, Na salt, 1377, 2028.
- salicylaldoxime, 700, 2751.
- salicylfluorone (2,6,7-trihydroxy-9-salicyl-3*H* xanthen-3-one), 1972.
- salicylohydroxamic acid, 1971.
- SPADNS [3-(4-sulphophenylazo)chromotropic acid], 2437.
- stilbazo [4,4′-bis(1,8-dihydroxyphenylazo)stilbene-2,2′-disulphonic acid], 768, 2111.
- stilbazochrome, [4,4′-bis(1,8-dihydroxy-3,6-disulpho-2-naphthylazo)stilbene-2,2′-disulphonic acid], 2621.
- sulphonazo III [3,6-bis(2-sulphophenylazo)-chromotropic acid], 3338.
- sulphosalicylic acid, 802, 804, 1418.
- tetra-(acetoxymercuri)fluorescein, 3693.
- tetraethylthiuram disulphide, 62.
- *NNN′N′*-tetrakis(2-hydroxypropyl)ethylenediamine, 3838.
- 1-(2-thiazolylazo)-2-naphthol, 3466.
- 2-thiobarbituric acid, 169, 781.
- 2-(thiobenzoyl)acetophenone, 1332.
- thiocaprolactam, 821.
- 1-thioglycerol (see 3-*mercaptopropane*-1,2-*diol*.)
- thiothenoyltrifluoroacetone [1,1,1-trifluoro-4-mercapto-4-(2-thienyl)but-3-en-2-one], 1973.
- thoron I [2-(2-hydroxy-3,6-disulpho-1-naphthylazo)benzenearsonic acid], 1978.
- 8-(toluene-*p*-sulphonamido)quinoline, 60.
- triazinylstilbexon (4,4′-bis{4,6-bis[(carboxymethyl)amino]-1,3,5-triazin-2-ylamino}stilbene-2,2′-disulphonic acid, hexa-Na salt), 833.
- triethylenetetramine-*NNN′N″N‴N‴*-hexa-acetic acid, 2552.
- 1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione, 90.
- 2,4,6-tri-2-pyridyl-1,3,5-triazine, 2278, 3472.
- xylidyl blue II {4-hydroxy-3-[2-hydroxy-3-(2,4-xylylcarbamoyl)naphthylazo]benzenesulphonic acid}, 2127.
- zinc dithiol, 500, 2397.
- zincon [5-(2-carboxyphenyl)-1-(2-hydroxy-5-sulphophenyl)-3-phenylformazan], 3567.

Redox systems, measurement of p.d. of, meter for, 3230P.

Reductors, formation of H$_2$O$_2$ in, 689.

Refractometry, automatic instrument for, 4019, 4020.
- measurement of i.r. index of org. liquids, 2518.

Renin, assay, by test for amino-acids liberated from polypeptides by, 3734.
- of endogenous, in blood, by detmn. of angiotensin produced by, 450.

Reseptyl. (See *Benzenesulphonanilide*, 3,4,4′-*trichloro*-.)

Resin acids, analysis, by GLC of trimethylsilyl deriv., 383.

Resin alcohols, GLC of trimethylsilyl deriv. of, 383.

Resins, natural, reflectance spectra of, 1520.

Resins, synthetic. (See also *Plastics; Polymers.*)
- alkyd, detmn. of monomer and dimer content, by GLC, 2254.
- detection of epoxy-groups in, colour test for, 1519.

Resins, synthetic—*continued*
detmn., in thermosetting compositions, by pyrolysis - GLC, 1518.
of epoxy-, hydroxy- and phenolic hydroxy-groups in, review, 3597.
phenol - formaldehyde, sepn. of reaction mixtures of, gel-permeation chrom., 332.
styrene - acrylate - melamine, analysis, i.r. spectroph., 2844.
Resorcinol, detmn., spectroph., 2808.
Resorcinol derivatives, chloro- and nitro-, detmn., spectroph., 2808.
Rhamnose, identn., spectroph., 898.
Rhamnus purshiana, detmn. of anthracene deriv. in bark of extraction - photom., 467.
Rhenium (For Re^{VII} see *Per-rhenate.*)
detmn., in copper ores, by neutron activation, 152.
in copper-refining products, gravim., 736.
potentiom., 737.
in molybdenite, by neutron activation, 151.
in molybdenite flue-dust, atomic-emission spectroph., 2715.
in presence of Mo, by neutron activation, 153.
of ng amounts, by electrolysis - oscillopolarogr., 3442.
photom., 3440.
polarogr., 2104.
sepn. from other metals and detmn., spectroph., 3441.
Rhenium, reagents for, mercaptoacetic acid, 3440.
nitron, 736.
Rhodactis howesii, sepn. of components of dialysed purified extract of, by gel filtration - column chrom., 1616.
Rhodium. (See also *Platinum-group metals.*)
detmn., by solvent extraction - photom., 872.
in platinum concentrates, photom., 1425.
of Rh^{III}, in presence of Pt metals, Au and Ag, by solvent extraction - spectroph., 873.
spectroph., 2130, 2754.
simult. with Au, Pd, and Pt, atomic-absorption spectroph., 1974.
volum., 193.
Rhodium, reagents for, diantipyrinylmethane, 872.
1-(2-pyridylazo)-2-naphthol, 873.
4-(2-pyridylazo)resorcinol, 2754.
xylenol orange, 2130.
Rhubarb, detection of istizin in extracts of, 2360.
sepn. of dianthrone glycosides and anthraquinone glycosides in extracts of, column - paper or thin-layer chrom., 3745.
Ribitol, sepn. from anhydroribitol and glycerol, by GLC or TLC as trimethylsilyl deriv., 3645.
Riboflavine, detmn., in cheese, spectrofluorim., 515.
in pharm. tablets, colorim., 1124.
of intermediate products in synthesis of, spectroph., 1476.
sepn. of photolysis products of, by TLC, 2341.
Ribose, 2-deoxy-, detmn., in atmospheric dust, fluorim., 1819.
Rice, detmn. of parathion-methyl in, in presence of fenitrothion, column - gas chrom., 2408.
Rifamycin, sepn. from other antibiotics and identn., by TLC, 3750.
Rocks. (See *Minerals, ores and rocks.*)
Rose oil, sepn. of geraniol and citronellol in, by TLC, 955.
Rosin acids, sepn. from fatty-acid methyl esters, gel-permeation chrom., 2232.
Rubber, analysis, B.S.I. methods for, 1522.
detmn. of pentachlorophenol in, by TLC, 1523.
pyrolysis - GLC of, 342, 343.
thermal analysis of compounded, 1511.
Rubber, synthetic, acrylonitrile - butadiene, analysis, B.S.I. methods for, 1522.
styrene - butadiene, analysis, B.S.I. methods for, 1522.
detmn. of antidegradants in, spectroph., 345.
of dimethyldithiocarbamate in, 974.
Rubber crepe, detmn. of castor oil in, by solvent extraction - GLC, 2257.
Rubber latex, B.S.I. methods of testing, 341.
Rubber stabilisers, detmn., in rubber, recommendations of German Ministry of Health for, 2850.
Rubber vulcanisates, analysis, pyrolysis - i.r. spectroph., 344.
recommendations of German Ministry of Health for, 2850.
detmn. of elementary S in, by TLC, 3602.
Rubber vulcanisation accelerators, detmn. of Cu, Fe and Mn in, spectroph., 2851.
Rubidium, detmn., in plants, X-ray spectrogr., 3606.
sepn. from Cs, column chrom., 725.
from K, as carbonate, column chrom., 49.
Ruelene, detmn., in animal dips, coulom., automated, 1804.
Rum, detmn. of aroma components of, 1773.
Rumen fluid, assay of biuretolytic activity in, spectroph., 451.
detmn. of starch and glucose in, spectroph., 1018.
of volatile fatty acids in, by GLC, 379.
automated, 1576.
Ruthenium. (See also *Platinum-group metals.*)
detmn., in minerals, ores or rocks, by neutron activation, 2568.
in platinum, simult. with Au, Ir and Os, by neutron activation, 2758.
of Ru^{III}, by solvent extraction - photom., 194.
of ^{103}Ru and ^{106}Ru in plutonium(IV) oxide, gamma-spectrom., 2661.
spectroph., 3472.
volum., 193.
sepn., by paper ion exchange, and detmn., X-ray spectrogr., 2757.
from Os, by distillation, 3476.
solvent extraction of, as naphthenate, in presence of Fe, Co or Cu naphthenates, 2755.
Ruthenium, reagents for, 2-thenoyltrifluoroacetone, 194.
2,4,6-tri-2-pyridyl-1,3,5-triazine, 3472.
Ruthenium compounds, nitratoaquonitrosylruthenium(IV), sepn., paper electroph., 2129.
tris(trifluoroacetylacetonato)ruthenium^{III}, retention of, in GLC, 2085.
Rutile, detmn., in presence of anatase, i.r. spectroph., 2678.
Rutin, detmn., in pharm. mixtures with quercetin and hesperidin methyl chalcone, column chrom. - spectroph., 470.
in pharm. prep., spectroph., 1125.

S

Saccharin, detmn., in presence of Na cyclamate, i.r. spectroph., 3051.
Saccharin sodium, detmn., in urine, standardised ion-specific electrode for, 2856.
Salicylaldehyde, detmn., volum., 920.
Salicylaldehyde thiosemicarbazone, extraction of, by non-polar solvents, 2202.
Salicylamide, detmn., in pharm. prep., in presence of aspirin, paracetamol and caffeine, spectroph., 2373.
paper chrom., 483.
Salicylanilide, bromo-deriv. of, analysis, i.r. spectroph., 2200.

alicylic acid, detection, on thin-layer plates, 3532.
  detmn., in presence of Edan, ion-exchange chrom. - spectroph., 3760.
  sepn. from aspirin, by gel filtration, 2374.
—, acetyl-. (For the drug see *Aspirin.*)
  2-diethylaminoethyl ester, detmn., in presence of other local anaesthetics, by TLC - spectroph., 1700.
    of salicylic acid in hydrolysates of, ion-exchange chrom. - spectroph., 3760.
—, 4-amino-, detmn. of alkali in tablets with isoniazid, source of error in, 3774.
  Na salt, detmn. of colour of soln. of, expressed as transmittance factor, 1704.
aliva, detection of alkaloids in, by solvent extraction - TLC, 2882.
  detmn. of F⁻ in, by GLC, as fluorotrimethylsilane, 3619.
***Salix* spp.,** identn. of glycosides of, by GLC, as trimethylsilyl ethers, 3650.
Samarium, detmn., by solvent extraction - photom., 2027.
    in copper ores, by neutron activation, 3328.
    in other rare-earth metals, by isotope dilution and rate of evaporation from solid surfaces, 3283.
    volum., 2028.
  sepn. from Eu, by ion exchange, 3363.
Samarium, reagent for, rhodizonic acid, Na salt, 2028.
Sampling, apparatus for, automatic, 3900P.
Sand, detmn. of SiO_2 in, by distillation of SiF_4, 3381.
    of H_2O in, apparatus for, 2571P.
Sansa oil, detmn. of hydroxyl value of unsaponifiable matter of, near-i.r. spectroph., 2412.
Sapogenins, detmn., in plants, by TLC - densitom., 1671.
Sausages. (See under *Meat products.*)
Scandium, detmn., atomic-absorption spectroph., 1371, 3359.
    in presence of La and Y, gravim., 771.
    in rare-earth-metal oxides, photom., 87.
    in sea water, atomic-absorption spectroph., 3878.
    spectrofluorim., 772, 773.
    spectroph., 3358.
  reaction with polyhydroxyflavones, 772.
  sepn. from rare-earth metals, by ion exchange, 2637.
    from rare-earth metals, Th and U^{VI}, by TLC, 3357.
  solvent extraction of, by bis(2-ethylhexyl) phosphate, 2676.
Scandium, reagents for, 3-cyano-1,5-bis(2-hydroxy-5-sulphophenyl)formazan, 87.
  kaempferol, 3358.
  β-resorcylaldehyde acetylhydrazone, 773.
Scandium antimonide, detmn. of Sc and Sb in, 774.
Scandium arsenide, detmn. of Sc and As in, 774.
Scintillation counting, anti-quench shift in, 4028.
  high-sensitivity whole-body counter for, 2529.
  internal standard for, 673.
  liquid, use of gelling agents in detmn. of ^{14}C-labelled substances by, 3091.
  plastic, influence of colour of sample on, 3250.
  sample preparation for, 1929.
  with external standard, correction of quenching effects in, 3252.
Scintillation detectors, efficiency of NE-213 for 14.5 and 2.7-MeV neutrons, 671.
  photopeak efficiency of, 670.
Scintillators, NaI(Tl) analytical function for describing gamma-ray pulse-height distributions of, 3253.
Scopoletin, detmn., in coffee, column - thin-layer chrom., 3065.
    in tobacco, in presence of scopolin, by TLC - fluorim., 3651.
  sepn. from fluorescent compounds in pea roots, by gel filtration or paper chrom., 1020.
Scopolin, detmn., in tobacco, in presence of scopoletin, by TLC - fluorim., 3651.
Sebacic acid, detmn., fluorim., 2174.
Securinine, detection, on TLC plates, in presence of strychnine, spray reagents for, 2883.
    in *Securinega* spp., paper chrom. - spectroph., 1115.
Selenium, concn. of, by successive solvent extraction of complexes with 3,3′-diaminobenzidine, 826.
  detmn., by catalytic reduction of methylene blue, 1406.
    by luminescence spectra at low temp., 3301.
    chronom., 827.
    in biol. materials, fluorim., 994.
      spectroph. or radiom., 2705.
    in copper, by co-pptn. with $PbSO_4$ and spectroph., 145.
    in copper-electrolyte slimes, 734, 735.
    in lead, by co-pptn. with $PbSO_4$ and spectroph., 145.
    in milk, spectrofluorim., by co-pptn. with As, 499.
    in objects containing Pt metals and gold, paper chrom., 829.
    in org. compounds, by O-flask combustion, 222.
    in presence of Sb, As and Te, by neutron activation, 1364.
    in sulphur, by neutron activation, 3419.
    of impurities in, spectrogr., 830.
    of Se^{VI}, polarogr., 828.
    of Te in, a.c. polarogr., 2083.
      by neutron activation, 831.
  sepn. from metallic impurities, paper chrom., 2706.
  solvent extraction of, as acetophenone complex, 3423.
Selenium, reagents for, 3,3′-diaminobenzidine, 2705.
  naphthalene-2,3-diamine, 499.
Selenocyanate, sepn. from thiocyanate, ion-exchange paper chrom., 2667.
Semicarbazide, deriv. of, i.r. absorption of carbonyl group in, 2148.
—, 1-phenyl-, detection, in pharm. prep., paper chrom., 1108.
Semicarbazones, i.r. absorption of carbonyl group in, 2148.
Semiconductor materials. (See also under headings for specific materials.)
  analysis, 1968 annual review, 1948.
    spectrogr., 111.
  detmn. of Ga in, photom., 79.
    of Te in, photom., 147.
Semolina, detmn. of carotenoids in, spectroph. and column chrom., 3793.
Senna, detmn. of sennosides in, comparison of methods for, 466.
  sepn. of dianthrone glycosides and anthraquinone glycosides in extracts of, column - paper or thin-layer chrom., 3745.
Separation processes, expression for defining extent of, 3147.
  use of molecular-sieve-coated adsorbent in, 3605P.
Sephadex, mol.-sieve effects of, automatic recording of, with thermal detection, 624.
Sesame oil, colour reaction with trichloroacetic acid in $CHCl_3$, 3080.
Sewage, analysis, by GLC or TLC, 579.
    research into methods for, 3130.

Sewage,—*continued*
assay of dehydrogenase in anaerobic sludge, spectroph., 3888.
detmn. of suspended solids in activated sludge, comparison of methods for, 3886.
of volatile acids in anaerobic sludge, 1829.
in sludge digesters, volum., 3887.
Shale, identn. of steroids and triterpenes in, by GLC - mass spectrom., 2827.
Shale oil, analysis, column chrom., 3152.
Shark-liver oil, analysis of isoprenoid hydrocarbons and C_{14} to C_{22} fatty acids in, by GLC - mass spectrom., 536.
Shortenings, detmn. of propane-1,2-diol fatty acid esters in, in presence of mono- and di-glycerides, column - gas chrom., 522.
Sialic acids, detmn., spectroph., automated, 1064.
lactosides of, isolation from colostrum by gel filtration, and identn. by TLC, 2293.
Sieving, micro-mesh, use of h.f. ultrasonic vibration in, 1945.
Silage, detmn. of NO_3^- in, polarogr., 1786.
of org. acids in, comparison of methods for, 2422.
Silane, alkyl- and arylchloro-deriv. of, retention of C in silica residue of, 1463.
dialkylaryl, alkyldiaryl and triaryl deriv. of, TLC of, 1462.
—, hexaphenyldi-, detmn. of substituted, potentiom., 3548.
—, tetraphenyl-, sepn. from chlorophenyl deriv., by TLC, 2662.
—, trichloro-, deriv. of, i.r. and Raman spectra of, 2183.
Silanol, dialkylaryl, alkyldiaryl and triaryl deriv. of, TLC of, 1462.
—, triphenyl-, deriv. of, detmn., potentiom., 289.
Silica, detmn., in minerals, ores or rocks, atomic-absorption spectroph., 108.
by $LiBO_2$ fusion - atomic-absorption spectroph., 1390.
in silicates, by distillation of SiF_4, 3381.
of B in, by ion exchange - spectrogr., 2010.
of Ga, Ge and In in, by neutron activation, 1389.
of Na in, by neutron activation, 793.
Silicates. (See also *Minerals, ores and rocks.*)
detmn. of metals in, atomic-absorption spectroph., 2670.
Silicon, detmn., in bauxite, X-ray spectrogr., 2620.
in cast iron, photom., 1422.
in conductive metals, 2668P.
in germanium, mass spectrom., 2050.
in iron, by thermo-e.m.f., 2112.
in non-ferrous alloys, by GLC of chlorides, 792.
in presence of P, spectroph., 2065.
in zeolites, gravim., 1337.
of impurities in, spectrogr., 104, 3379.
of thickness of SiO_2 films on, by i.r. absorption, 105.
low-temp. far-i.r. transmission properties of polycrystalline and single-crystal, 2511.
Silicon carbide, detmn. of Al, B and P in, spectrogr., 111.
of impurities in, spectrogr., improvement in sensitivity of, 16.
Silicon compounds, organic, detmn. of Si in, by O-flask combustion, 223.
Silicon(IV) fluoride, detmn., in mixtures with HF and H_2O by gas-density balance, 1388.
Silicones, detmn. of metals in, photom., 2253.
Siloxane, methylphenyl deriv. of, sepn., paper chrom., 2184.
Silver, concn. of, in rocks or soil, by ion exchange, 3479.
detmn., atomic-absorption spectroph., 702.
below reliable limit of detection, spectrogr., 3291.
by inhibition of glucose - glucose oxidase reaction, 1350.
of invertase, 3344.
by ion exchange - gravim., 54.
in bullion, atomic-absorption spectroph., 2594.
in cadmium or zinc, by catalytic method, 2610.
in copper ores, by neutron activation, 3328.
in electroplating soln., photom., 1995.
in marine deposits, by neutron activation, 3296.
in minerals, ores or rocks, by photon activation, 2590.
in mixtures of alkaline-earth oxides and SiO_2, spectrogr., 3290.
in presence of Au or Pt, by neutron activation, and reduction on mercury, 2597.
in rain, hail and snow, by neutron activation, 3126.
in the system MgO - Cr_2O_3, spectrogr., anomalous behaviour of, 3293.
of impurities in, anodic-stripping voltamm., 55.
of protein-bound, in blood serum, by gel filtration - neutron activation, 2855.
of Ta in, by solvent extraction - X-ray spectrogr., 739.
photom., 2595.
potentiom., 1351, 2596.
volum., 738.
electro-reduction of Ag^+, in molten $NaNO_3$ - KNO_3, 22.
selective adsorption of, by copolymers, 1967.
sepn. from Al, Be, Cr or Cu, by GLC, of acetylacetonates and detmn., mass spectrom., 703.
from Pb, as EDTA complex, 1996.
solvent extraction of, from acid soln., 706.
Silver, reagents for, 2-(4-amino-*N*-ethylanilino)-ethanol, 2595.
2-mercaptobenzothiazole, 2596.
Silver alloys, analysis, coulom. - substoicheiom., automated, 2557.
Silylidyne groups, detmn., coulom., 3494.
Simazine, detmn., in crops, soil or water, by GLC, 1187.
colorim., comparison of methods for, 1186.
semi-quant., ring colorim., 1185.
Skin, assay of β-glucuronidase in, spectroph., 1655.
detmn. of ^3H in, by scintillation counting as ^3H_2O, modification of combustion method for, 980.
Slag, blast-furnace, detmn. of specific surface of, 4042.
Snake venoms, sepn. of proteins of, gel electroph., on polyacrylamide, 1619.
Snow, detmn. of Ag in, by neutron activation, 3126.
Soap. (See also *Detergents.*)
analysis, bibliography of, 1174, 3817.
B.S.I. specifications for liquid and liquid toilet, 312, 313.
detmn. of free acidity or alkalinity in, automated, 314.
identn. of constituents of unsaponifiable and unsaponified matter in, by TLC, 953.
thermal analysis and calorimetry of, 1496.
Sodium, analysis of suspensions of, 2577.
detmn., in acetonitrile medium, coulom., 1965.
in biol. fluids, flame photom., elimination of K interference in, 983, 3608.
in biol. tissues, in presence of K, flame photom., 3607.
in blood serum, collaborative study of, 2268.

odium, determination—*continued*
in egg yolk, potentiom., Na$^+$-sensitive glass electrode for, 1730.
in ion-exchange resins, by electron-microprobe analysis, 1345.
in natural water, potentiom., with Na$^+$-sensitive electrode, 578.
in urine, standardised ion-specific electrode for, 2856.
internal capillary glass electrodes for, 3233.
of C in, by photon activation, 724.
of CO_3^{2-} in, by distillation - conductim., 1979.
of Cr, Fe and Ni in, atomic-absorption spectroph., 3319.
of H in, 45.
of total body, by *in vivo* neutron activation, 2269.
X-ray spectrogr., role of window of X-ray tube in, 1962.
sepn. from K, column chrom., 1848P.
of ^{24}Na from other radio-isotopes, by adsorption on Dowex 1-X8, 3277.
Sodium chloride. (See also *Common salt; Vacuum salt.*)
detmn. of $Fe(CN)_6^{4-}$ in, photom., 1348.
of I in, photom., 2579.
Sodium fluoride, analysis, permissible errors in, 1980.
Sodium halates, differential thermal analysis of, 3321.
Sodium hydroxide, detmn. of B in, spectroph., 3320.
of CO_3^{2-} in, conductim., 2665.
coulom., 2578.
Sodium hypochlorite, soln., analysis, B.S.I. methods for, 46.
Sodium lauryl sulphate. (See *Dodecyl sodium sulphate.*)
Sodium nitrite, detmn., amperom., 3270.
Sodium peroxide, incorporation of aq. liquids in melts of, 593.
Sodium phosphates,
— **Na_3PO_4,** sepn. from $Na_4P_2O_7$ and $Na_5P_3O_{10}$, paper chrom., 3407.
— **$Na_2P_4O_7$,** analysis, B.S.I. methods for, 47.
Sodium silicate, detmn. of SiO_2 to Na_2O ratio in, 3382.
Sodium tetraphenylborate, detmn., coulom., 2580.
Sodium triphosphate, analysis, B.S.I. method for, 47.
Soil. (See also *Humus.*)
concn. of trace elements in, by ion exchange, 3479.
detmn. of Al in, atomic-absorption spectroph. or colorim., 542.
spectroph., 1782.
of Ca in, flame photom., suppression of interference in, 1178.
of $^{14}CO_2$ in, by liquid-scintillation counting, 3091.
of chlorfenvinphos in, in presence of its breakdown products, by GLC, 2427.
of F in, 3096.
of gypsum in, by X-ray diffraction, 2416.
of humus in, volum., 3099.
of Fe in, spectroph., 3098.
of Fe^{II} in, spectroph., 2419.
of FeS in, in presence of Fe_2O_3, volum., 3839.
of Mn in, atomic-absorption spectroph., 3097.
of Mo in, spectroph., 3095.
of NO_3^- in, photom., 1783, 2417.
of N in, volum. or mass spectrom., 3092.
of organophosphorus pesticides in, by GLC as methyl esters, 2407.
Soil, determination—*continued*
of pesticides in, by GLC as bromo- or chloromethyldimethylsilyl deriv., 2430.
clean-up method for, 1828.
of PO_4^{3-} in, by ion exchange - colorim., 541.
of P in, as molybdenum blue, 1784.
automated, 2418, 3093, 3094.
of polyaminocarboxylic acids in, paper chrom. or electroph., 1180.
of Sr in, atomic-absorption spectroph., 2272.
of S, elementary, in, volum., 3835.
h.-f. induction-furnace for, 3837.
volum., 3836.
of trace elements in, spectrogr., 3984.
of water-extractable SO_4^{2-} in, polarogr., 540.
of Zn in, spectrogr., 1179.
'glucose' test for potentially available N in, 539.
solvent extraction of aldrin and heptachlor from, effect of H_2O in, 1797.
Soil extracts, detmn. of Mn in, spectroph., 3838.
of monuron in, semi-quant. by TLC, 3876.
of organophosphorus pesticides in, by GLC, clean-up procedure for, 3866.
Solanine, detmn., in potato leaf, polarogr., 1114.
Solder, analysis of Cu - Mn - Mo, photom., 699.
detmn. of Cu and Pb in, complexom., 32.
of Cu, Au, Ag and Sn in, X-ray spectrogr., 799.
effect of ageing on Pb - Sn standards for, 800.
Solenoids, superconducting, NMR probe for, 1295.
Solid solutions, analysis, by X-ray techniques, 633.
***Solidago* spp.,** detmn. of inulin in roots of, paper-thin-layer chrom. - colorim., 3648.
Solvent extraction, 1968 annual reviews, 677, 1948.
apparatus for addition of solids to refluxing soln., without loss of solvent, 2448.
of inorg. compounds, review, 1323.
Solvents, organic, comparison of dioctyl sulphide, sulphoxide and sulphone as, 706.
detmn. of dissolved O in, by isotope dilution, 2078.
of solubility of oils and fats in cleaning agents containing, by radial paper chromatography, 3571.
of H_2O in, colorim., 42.
and free O in, use of butyl-lithium in, 1431.
lipid contamination of, from polypropylene apparatus, 10.
purification of, for spectrofluorimetry, 2500.
relative scale of acidity of, 2144.
Sorbitan, analysis of polyhydroxyethylated esters of, 1148.
Sorbitol, detmn. in beverages, in presence of mannitol, invert sugar, glycerol and butane-2,3-diol, by TLC - fluorim., 3942.
in fruit juices, by TLC - fluorim., 3042, 3043.
sepn. from mannitol, in presence of sugars, by TLC, 1747.
Soya-bean flour, extraction of insect fragments and rodent hairs from, collaborative study of methods for, 1724.
Spasman, detmn., in pharm. prep., argentim., 2380.
gravim., 488.
non-aq. volum. or spectroph., 3769.
Spectra, circular dichroic, increased resolution of, by computer, 1916.
Spectrofluorimetry, 2-aminopyridine as standard for, 3987.
instrument for, 639.
purification of solvents for, 2500.
Spectrofluorimetry, gamma-ray nuclear resonance, 1968 annual review, 677.
report of conference on, 1311.
Spectrography, emission, 1968 annual review, 677.
apparatus for, 3186P, 3976P.

Spectrography, emission, apparatus—*continued*
    for controlled temp. from −196° to 177°, 4001.
    for photographic recording of interrupted-arc discharges, 1271.
    for sub-mg samples, 1890.
    review of development of, 2492.
    temp.-compensated, 3196.
  applications, in org. analysis, 3483.
  comparison of methods of measurement of weak lines in, 1267.
  detmn. of elements below the reliable limit of detection by, 3291.
    of impurities in powders by, technique for, 17.
    of molecular form of an element by, 3294.
    of trace elements by, anomalous behaviour in evaporation of system $MgO - Cr_2O_3$, 3293.
      comparison with atomic-absorption spectrophotometry, 642.
  effect of purity of laboratory air on, 1269.
    of rotation of sample electrode in, 763.
    of temp. on slit width and photomultiplier sensitivity, 3194.
  evaluation of photographic materials for, 1892.
  excitation sources for, atomiser with plasma jet as, 2498.
    continuous-burning a.c. arc as, 3983.
    graphite spark, use of polished electrodes in, 1268.
    high-current impulse Ar-arc as, 3982.
    micro-spark as, technique for, 2497.
    N_2O - H flame as, 640.
    Q-switched ruby laser as, 3192.
  influence of electrodes on, 1959, 1960.
  integrated area-ratio method for high percentages, 2495.
  interferences in, 15.
  photographic recording in, comparison of plates for, 2494.
    limits of sensitivity of, 3985.
  punched cards as position indicators in, 3187.
  rapid-loading Stallwood jet for, 3195.
  removal of matrix effect in, 2493.
  resistance to introduction of samples in, use of NaCl aerosol in reduction of, 2491.
  use of interferometer in, 3986.
    of Jarrell - Ash order sorter in, 2496.
    of K_2CO_3 as buffer in, 3984.
    of purified compressed air in arc gap in, 1270.
Spectrography, emission, X-ray, application of, to rare-earth metals, 1375.
    to very small zones, 3190.
  attenuation of α- or β-rays as source in, 637.
  calculation methods for, 2487.
    comparison of empirical coefficients and fundamental parameters, 2487.
  comparison of flat and curved aluminium planchets for, 2485.
  dead-time correction in, 2484.
  detmn. of light elements by, sample-holder cover for, 636.
    of trace elements by, slope-ratio technique for, 3188.
  escape-peak interference in, 638.
  influence of energy of primary radiation on sensitivity of, 3189.
  report of conference on, 1310.
  review, 3977.
  role of window of X-ray tube in, 1962.
  spectral distribution of tubes for, 2486.
  study of homogeneity of glass discs for, by electron micro-probe analysis, 635.
Spectrometry, electron spin resonance, response of balanced detector in, 651.
  sensitivity of instruments for, 1907.
  use of ruby maser pre-amplifier in, 2514.
Spectrometry, gamma-ray, computer code for analysis of high-resolution spectra, 676.
Spectrometry, mass. (See *Mass spectrometry.*)
Spectrometry, microwave, cells for, thermally-controlled, 3225.
  review, 1905.
Spectrometry, nuclear magnetic resonance, analysis of spectra in, comparison of methods for, 650.
  1968 annual review, 677.
  apparatus for, 1294.
    for automatic recording in, 4011.
  calculation of high-resolution spectra in, 1297.
  cleaning and drying of sample tubes for, 2512.
  detector for, based on dispersion, 4010.
  Dewar flask for liquid He in, 1906.
  fast-recovery probe and receiver for, 647.
  high-power untuned radio-frequency transmitter for, 2513.
  permanent magnet for, 649.
  protection of probes against overheating, 648.
Spectrometry, radioisotope X-ray, applications of, 3978.
Spectrometry, Raman, 1968 annual reviews, 677, 1948.
  apparatus for, with He - Ne laser, 3197.
  calibration of He - Ne laser-excited instruments, 3198.
  laser excitation of crystalline powders for, 3989.
  method of obtaining inverted spectra in, 1273P.
  optical-filter soln. for, u.v. stabilisers as, 2501.
  sampling technique for, 1893.
Spectrophotometry, absorption (*general*), adaptation of instrument for automated analysis, 1915.
  adapter for control of reference-beam attenuation in, 2509.
  1968 annual review, 677.
  apparatus for, automatic, 2507.
    combined with microscope, 1280P.
    for controlled temp. from −196° to 177°, 4001.
    test for linearity of scale in, 2504.
    with electronic scanning, 3216P.
  automated system for, 4000P.
  cell for, controlled temp., 1282P, 1289P.
  choice of wavelengths for multi-component systems, 3999.
  detmn. of peak positions from composite spectra by computer, 1897.
  device for passing gas through liquid in cell in, 1285P.
  difference, apparatus for, 1898.
  flow-through cell for, 2506.
  glove-box technique for, 4005.
  high-temp. sample furnace for, 2505.
  increase of accuracy in analysis of multi-component systems in, 2503.
  reagents for, purity control of, 2153.
  use of photoconductive cells in, 3217.
Spectrophotometry, absorption, infra-red, 1968 annual reviews, 677, 1948.
  apparatus for, review, 4007.
  application of, in process control, 4009.
  automatic sample-changer for, 2510.
  cells for, disposable, 3223.
    for reactive gases at high temp., 1902.
    for use with vapours, 3222.
    low-temp., for use of anhyd. HF as solvent in, 1901.
  collecting device for vapour-phase pyrolysate samples for, 4008P.
  deviations in the system CO_2 - N, 1903.
  evaluation of band intensities in, at elevated temp., 646.
  in far region, apparatus for, 1293.
    review, 1292.

Spectrophotometry, absorption, infra-red—*continued*
  measurement of apparent bandwidths in, 1288.
  monochromator for, 3219P.
  optical system for, 3220P.
  prepn. of polyethylene pellets for, 3221.
    of KBr pellets for, 1286.
  reflection-, cells for, 1290P.
    variable-angle attachment for, 1291P.
  restoration of AgCl plates for, 3224.
  searching system for the ASTM data file, 1904.
  simult. observation of absorption and emission spectra in, 645.

Spectrophotometry, absorption, ultra-violet, 1968 annual review, 677.
  apparatus control in, 1899.
  cell for low temp., 4004.
  collimator for extreme range, 3218.
  detmn. of gases in air by, apparatus for, 1281P.
  pulsed-radiation source for, 643.
  vacuum-, use of rotating cell in, 1900.

Spectrophotometry, atomic-absorption, background-compensating system for, 1275.
  calculation of data in, by computer, 1277.
  continuous pre-evaporation of sample in, 3995.
  detmn. of trace elements by, comparison with emission spectrography, 642.
  fluorimetric attachment for, 3998.
  graphite tube furnace for, 3997.
  instrument for, simult. use for atomic-emission, 3208.
  isolation and detection of atomic resonance lines in, 3214.
  of multi-component systems, choice of optimum wavelengths for, 1278.
    use of method of least squares in, 1279.
  production of aerosols for, 3210.
      ultrasonic, 3211.
  review of developments in, 3994.
  sample changer for, automatic, 3204.
  sampling in, method for, 1274.
  sources for, air - acetylene, effect of acetone vapour on, 1276.
    air - H flame as, 3996.
    electrodeless lamps as, 29.
      microwave-excited, 1896, 3206.
    high-temp. flames as, 3213.
    hollow-cathode lamp as, 2502, 3209.
      magnetic control of, 3207.
    light-frequency modulation of continnum in, 3205.
    plasma torch as, 1894, 1895.
  technique for use in mining laboratories, 2551.
  use of comparison standards containing FeCl$_3$ in, 695.
    of heated Fuwa tubes in, 3212.
    of long-path absorption tubes in, 641.
    of resonance detector in, 2750.

Spectrophotometry, atomic-emission, apparatus for, 3992.
    simult. with atomic absorption, 3208.
  burner for, 3993P.
  criticisms of published statements on, 3203.
  improvement of selectivity and sensitivity in, 3199.
  measurement of gas-flow rates in, 3991.
  review of developments in, 3990.
  sources for, atomic-H plasma torch as, 1894.
    hollow-cathode lamp as, 3209.
    separated flames as, 3200.
    separated N$_2$O - C$_2$H$_2$ flame as, 1334.

Spectrophotometry, atomic-fluorescence, detection limits in, 3282.
  instrument for simult. use for atomic-absorption, 3998.

Spectrophotometry, atomic-fluorescence,—*continued*
  sources for, atomic-H plasma torch as, 1894.
    microwave-excited electrodeless discharge tubes as, 1896, 2690.

Spectrophotometry, multiple internal reflectance, applications of, 2508.

Spectroscopy, applications of, review, 629.

Sphingolipids, analysis of hydrolysis products of, paper chrom., 1583.
  sepn. of dinitrophenyl deriv. of bases, paper chrom., 3667.

Sphingomyelin, detmn., in biol. tissues, in presence of phosphatidylcholine, by TLC - i.r. spectroph., 2305.

Sphingosine, identn. of degradation products of, paper chrom., as 2,4-dinitrophenyl deriv., 1583.

Spices, detmn. of dichloromethane, 1,2-dichloroethane and trichloroethylene in, by GLC, 3053.
    of volatile solvents in, by GLC of headspace gas, 520.

Spinach, detmn. of carbaryl in, by TLC, 1751.

Spirits, potable, analysis of illicit, for trace components, by neutron activation, atomic-absorption spectrophotometry and GLC, 1774.
  detmn. of acetic acid esters in, by GLC, 3077.
    of ethanol in, pyknom., accuracy of, 3816.
      IUPAC report on, 3076.
    of sugars in, by GLC, 3078.

Squalene, detmn., in shark-liver oil, by GLC - mass spectrom., 536.

Starch. (See also *Potato starch.*)
  detmn., in crops, enzymic, with glucoamylase, 2414.
    in plants, spectroph., interference in anthrone reaction by HClO$_4$ used as solvent, 2897.
    in sugar, comparison of formamide and Balch methods for, 3014.
    in tobacco, spectroph., by use of iodine reaction, 1019.
    in wheat flour, enzymic, 506.
    of carbonyl groups in, polarogr., as *o*-phenylenediamine complex, 3792.
    of damaged, in flour, enzymic, 505, 506.
    photom., 899.
  sepn. from glucose, and detmn., spectroph., 1018.
    of oligosaccharides in hydrolysates of, by TLC, 503.

Starch syrup, detmn. of sugars in, by GLC of trimethylsilyl deriv. of corresponding alditols, 504.

Statistics, applications of, 1968 annual review, 677.
    in the analytical laboratory, 1312C, 1313C.
    of Gaussian distribution in analysis, dangers of, 679.

Stearic acid, sepn. from palmitic acid, column chrom., 1848P.

Steel, analysis, atomic-absorption spectroph., review, 860.
    mass spectrom., with use of ion-beam chopper, reproducibility of, 34.
    of non-metallic inclusions in, 3453.
    spectrogr., effect of sample-thickness on, 862.
  detmn. of Sb, As and Cu in, by neutron activation, 176.
    of B in, photom., 1420.
      spectrogr., 177.
    of C in, 863P.
      by combustion, without flux, 1387.
      by oxidation and thermal conductivity, 142.
      coulom., collaborative study of, 2739.
    of Cr in, atomic-absorption spectroph., 2744.
    of Cr, Cu and Mn in, atomic-absorption spectroph., 861.

Steel, determination—*continued*
of Cr, Mn, Ni and V in, X-ray spectrogr., 2741.
of Co in, amperom., 866.
and Ni in, photom., 189.
spectroph., 2118.
of Pb in, comparison of methods for, 179.
photom., 865.
and Zn in, polarogr., 180, 2113.
of Mo in, amperom., 148.
spectrogr., 2117.
spectroph., 2116, 2745.
of Ni in, spectrogr., 867.
of N as AlN in, by isotope dilution, 181.
in foil, spectrogr., 3286.
and O in, by arc-melting, 183.
of oxide inclusions in, microgr., use of Quantimet microscope in, 182.
of O in, by vacuum fusion, comparison of methods for, 1424.
of P, Si and S in, by neutron activation, 3457.
of S in, spectrogr., effect of sulphide inclusions on, 2742.
of Te in, atomic-absorption spectroph., 2743.
of tin coating on blackplate, B.S.I. method for, 178.
of Ti in, as Ti^{IV} gallate, by solvent extraction - spectroph., 118.
spectroph., 3458.
of trace elements in, comparison of methods for, 175.
of Zn in, by solvent extraction - polarogr., 3456.
phase analysis of ferritic, strengthened with Fe_2W, by anodic dissolution, 3454.
review, 3452.
Steel, stainless, detmn. of Cr and Ni in, complexom., 32.
of Cr, Mn and Ni in, atomic-absorption spectroph., 2562.
of Ni in, X-ray spectrogr., system of calibration for, 185.
study of changes in composition of oxide film on, thin-layer X-ray spectrogr., 3455.
Stercobilin, sepn. from urobilin, by TLC, and identn., u.v. or i.r. spectroph., 1627.
Steroids. (See also *Cardiac glycosides; Corticosteroids; Hormones, steroidal.*)
analysis, radiom. - gas chrom., 1313C.
detmn., in urine, by TLC, 2919.
of O-substituents in, paper chrom., 2914.
of 21-phosphates, ion-exchange chrom., semi-automated, 2923.
identn., in shale, by GLC - mass spectrom., 2827.
recovery of, in eluate from GLC columns, 404.
—, 11-deoxy-17-oxo-, detmn., in urine, enzymic - paper chrom. - colorim., with Zimmermann reagent, 2308.
—, 11-hydroxy-17-oxo-, detmn., in urine, by TLC and the Zimmermann reaction, 3676.
—, oxo-, detmn., gravim, as 2,4-dinitrophenylhydrazones, 477.
spectroph., use of modified Zimmermann reaction in, 2917.
sepn., in anti-inflamatory prep., by TLC, solvent systems for, 1142.
—, 3-oxo-, detmn., colorim., prepn. of reagent for, 1033.
—, 16- and 17-oxo-, sepn., by GLC as trimethylsilyl deriv. of oximes, 1591.
—, 17-oxo-, detmn., in urine, enzymic - colorim., with Zimmermann reagent, 2308.
paper chrom., automated, 2921.
on thin-layer chromatograms, spectrofluorim., 2918.
sepn., by TLC, horizontal, 2309.
Steroids, 20-oxo-, GLC of, retention times for epimerisable, 1031.
—, 17-oxogenic-, detmn., in urine, enzymic - paper chrom. - colorim., with Zimmermann reagent, 2308.
paper chrom. automated, with data processing by computer, 2921.
sepn., in urine, by solvent partition, 2916.
Sterols, GLC of, correlation of mol. structure with retention times, 2306.
isolation from vegetable oils and analysis by TLC, 3825.
sepn., by GLC, 236.
Stilbene-2,2′-disulphonic acid, 4,4′-dinitro-, detmn. of impurities in, paper chrom., 2231.
Stilboestrol, detmn., in suppositories, column - thin-layer chrom., 1141.
Straw, detmn. of lignin in, calorim., in sealed bomb, 3845.
and cellulose in, 3108.
Streptomycin, sepn. from other tuberculostatic antibiotics, and identn., by TLC, 3750.
Streptomycin sulphate, detmn., in pharm. prep., volum., 2362.
Strontium, detmn., atomic-absorption spectroph., influence of type of flame on interference by Fe in, 3337.
in biol. materials, 1C.
in blood plasma, by neutron activation, 1C.
and urine, atomic-absorption spectroph., 2861.
in bone, X-ray spectrogr., 2862.
in bone, foods and soil, atomic-absorption spectroph., 2272.
in bone, milk and plants, column chrom. - flame photom., 355.
in hydroxylapatite, 1333.
in plants, X-ray spectrogr., 3606.
in presence of Ba, photom., 2607.
of Y, complexom., 1361.
of ^{89}Sr, in presence of ^{91}Y, radiom., 1361.
in urine, A.E.R.E. procedure for 979.
and ^{90}Sr in mud samples, by isotope dilution and beta-counting, 2434.
of ^{90}Sr in air and rain water, in presence of ^{7}Be, ^{32}P, ^{210}Pb and ^{210}Po, radiom., 563.
in urine, by oxalate pptn. and beta-counting for ^{90}Y, 354.
volum., 3334.
sepn. from Ba, electroph., 2548.
of ^{90}Sr from ^{90}Y, ^{140}Ba and ^{140}La, ring colorim., 2558.
solvent extraction of, with azo-azoxy BN, 2608.
with dicyclohexyl benzenesulphonylphosphoramidate, 2005.
Strontium, reagents for, azo-azoxy BN, 2608.
nitchromazo, 2607.
Strontium sulphate, co-pptn. of, with $BaSO_4$, 2607.
Strychnine, detection, on TLC plates, in presence of securinine, spray reagents for, 2883.
identn., in presence of brucine and physostigmine, by TLC, 2977.
surfactant effect on solubility in H_2O of, 1109.
Strychnine phosphate, detmn., in pharm. tablets, containing Mg stearate, by solvent extraction - spectroph., 2354.
Styrene, detmn., in air, colorim., 1202.
sepn. of chloro-deriv. of, column chrom., 2190.
Succinate, detection, in presence of benzoate, 1433.
Succinic acid, detmn., in brain, enzymic - spectroph., 386.
Succinimide, *N*-vinyl-, NMR and i.r. spectra of, 2208.

- **crose,** detmn., by oxidation with IO_4^-, 897.
  - enzymic - spectrofluorim., 2291.
  - in soln., by b. p. elevation, 3789.
- **gar, refined,** detmn. of starch in, comparison of formamide and Balch methods for, 3014.
  - particle size analysis of dust, sedimentation method for, 2398.
- **gar phosphates,** sepn., ion-exchange chrom., comparison of linear-gradient systems for, 1084.
  - paper chrom., 2905.
- **gars.** (See also *Aldohexoses; Aldopentoses; Aminosugars; Carbohydrates.*)
  - detmn., by oxidation with $K_5H_4[Cu(TeO_6)_2]$, 243.
    - in beverages and malt wort, by TLC, 1170.
    - in confectionery, in presence of hexitols, ion-exchange chrom., automated, 3795.
    - in plants, atomic-absorption spectroph., of Cu unreduced by, 3046.
    - in presence of polyols, by GLC of trisilyl ethers, 3504.
    - of ^{14}C-labelled, enzymic, 1451.
    - of deoxy-compounds in, after irradiation, photom., 3791.
    - of di- and tri-saccharides, by KIO_4 oxidation, 2167.
    - of free, in tobacco, spectroph., 1013.
    - of monosaccharides, by IO_4^- oxidation, 244.
      - ^{14}C-labelled, on paper or thin-layer chromatograms, 896.
      - in tobacco, by GLC as trimethylsilyl ethers, 1013.
    - of oligosaccharides in uronic acids, ion-exchange chrom., automated, 1570.
    - of SO_4^{2-} in monosaccharide sulphates, flame photom., 1015.
  - identn., by rate of oxime formation, 2165.
    - by TLC, 2793.
    - in urine, by TLC, 3641.
    - of monosaccharides, by TLC, as methylated methylglucosides, 1450.
  - sepn., by TLC, 503, 3642.
    - from polyols, ion-exchange chrom., 1449.
    - from urine, by TLC, 1528, 3640.
- **ugars, 2-deoxy-,** detmn., on chromatograms or electropherograms, fluorim, 3507.
- **Sulfoxide'** (*the pesticide*), detmn., in formulations, column chrom. - u.v. spectroph., 1813.
- **ulphacetamide,** detmn., in pharm. prep., in presence of sulphanilamide, by TLC - spectroph., 2384.
  - identn., in mixtures of sulpha drugs, mass spectrom., 2383.
- **ulphadiazine,** detmn., paper chrom., solvent systems for, 3000.
  - spectroph., 3001.
- **ulphadimethoxine,** detmn., in mixtures with chloramphenicol and tetracycline hydrochloride, by TLC - non-aq. volum., 1117.
  - paper chrom., solvent systems for, 3000.
- **ulphadimidine,** detmn., paper chrom., solvent systems for, 3000.
  - identn., in mixtures of sulpha drugs, mass spectrom., 2383.
- **ulphafurazole,** identn., in mixtures of sulpha drugs, mass spectrom., 2383.
- **ulphaguanidine,** detmn., paper chrom., solvent systems for, 3000.
  - identn., in mixtures of sulpha drugs, mass spectrom., 2383.
- **ulphamerazine,** detmn., paper chrom., solvent systems for, 3000.
- **ulphamethazine,** detmn., absorptiom., as compound with gossypol, 3772.
- **Sulphamethizole,** detmn., absorptiom., as compound with gossypol, 3772.
- **Sulphamethoxydiazine,** detmn., paper chrom., solvent systems for, 3000.
- **Sulphamethoxypyridazine,** detmn., paper chrom., solvent systems for, 3000.
- **Sulphamethylthiazole,** identn., in mixtures of sulpha drugs, mass spectrom., 2383.
- **Sulphamic acid,** detmn., amperom., 3269.
- **Sulphanilamide,** detmn., in pharm. prep. containing sulphacetamide, by TLC - spectroph., 2384.
  - paper chrom., solvent systems for, 3000.
- **Sulphanilic acid,** detmn., in presence of metanilic acid or H_2SO_4, potentiom., 3546.
  - sepn. from *o*-isomer, ion-exchange chrom., 287.
- **Sulphapyridine,** detmn., absorptiom., as compound with gossypol, 3772.
- **Sulphate,** detmn., complexom., 142.
  - in natural water, spectroph., by extraction with metal-chelate cation, 2440.
    - test strip for, 3867P.
  - in presence of sol. silicate, 3422.
  - potentiom., 143.
  - turbidim., 3421.
  - sepn. from oxalate, by ion exchange, 2474.
- **Sulphathiazole,** detection, in pharm. prep., paper chrom., 1108.
  - identn., in mixtures of sulpha drugs, mass spectrom., 2383.
- **Sulphatides,** detmn., in biol. tissues, spectroph., 2303.
- **Sulphide,** detmn. by quenching of tetra(acetoxymercuri)fluorescein, 1404.
  - cathode-ray polarogr., 1405.
  - in natural water, test strip for, 3867P.
  - in presence of halides, SCN^- and $S_2O_3^{2-}$, coulom., 3420.
  - potentiom., with S^{2-}-selective membrane electrode, 2081.
- **Sulphides, organic.** (See also *Disulphides, organic.*)
  - detmn., in air, by membrane filtration and microcoulom. detection, 1196.
- **Sulphinpyrazone,** identn., in presence of related drugs, by TLC - u.v. spectroph., 1692.
- **Sulphite,** detmn. of, ^{35}S-labelled, in biol. materials, photom. - scintillation spectrom., 3616.
  - photom., 2703.
- **Sulphobromophthalein,** Na salt, detmn. of impurities in, by TLC - i.r. spectroph., 1709.
- **Sulphonamides,** detmn., absorptiom., as compounds with gossypol, 3772.
  - coulom., 3771.
  - identn., in mixtures of, mass spectrom., 2383.
- **Sulphonazo III.** (See *Chromotropic acid, 3,6-bis-(2-sulphophenylazo)-*.
- **Sulphone, diphenyl,** detmn., in presence of dibenzyl disulphide, by pyrolysis - photom., 3491.
- **Sulphonic acids,** aliphatic mono-, detmn., in presence of H_2SO_4, potentiom., 913.
  - detmn. of isomers of, by GLC, 2813.
  - sepn. of mono- and di-, ion-exchange chrom., 2181.
- **Sulphoxide, dimethyl,** detmn., in ointments, by NMR, 1149.
  - volum., 2804.
- **Sulphoxides,** detmn., volum., 2803.
- **Sulphur,** detmn., atomic-emission spectroph., 3404.
  - in aluminium and magnesium, by neutron activation, 2702.
  - in coal, by O-flask method, 883.
    - gravim., 882.
    - X-ray spectrogr., 3482.
  - in copper, by neutron activation, 2702.
  - in grass, polarogr., as SO_4^{2-} ion, 1789.
  - in hydrocarbons, by O-flask combustion, 2146.

- **Sulphur,** determination—*continued*
    - in inorg. compounds, by combustion, 144.
    - in iron, by neutron activation, 2702.
    - in nickel, by neutron activation, 2702.
    - in org. compounds, 3489, 3490.
        - automated, 2779.
        - photom., 2147.
    - in petroleum, by hydrolysis and hydrogenation, 1491.
    - in pharm. prep., by O-flask combustion, 457.
    - in plants, X-ray spectrogr., 3606.
    - in soil, h.-f. induction furnace for, 3837.
        - of elementary, volum., 3835.
        - of total, volum., 3836.
    - in steel, spectrogr., effect of sulphide inclusions on, 2742.
    - of As in, 2704.
    - of Se in, by neutron activation, 3419.
    - of ^{33}S in minerals, ores or rocks, by NMR, 2080.
    - of ^{35}S in, A.E.R.E. procedure for, 979.
    - spectrogr., conditions for, 3308.
- **Sulphur dioxide,** analysis of mixtures with CO_2 and Cl, by GLC, 750.
  - detmn., in air, in presence of other S-containing gases, by membrane filtration and microcoulom. detection, 1196.
  - sepn. from Ar, CO, CO_2, H_2S and O, by GSC, 3305.
- **Sulphur oxides,** detmn., in flue gases, apparatus for, 2449.
- **Sulphuric acid,** analysis of spent, after use for drying acetylene, 2838.
  - fuming, detmn. of SO_3 in, potentiom., 2082.
  - solvent extraction of, in mixtures with H_3PO_4 and HNO_3, 1327.
- **Supinine,** detmn., in presence of heliotrine, spectroph., solvent and temp. effects in, 2356.
- **Suppositories,** analysis of glyceride-based excipients for, by TLC, 3008.
- **Surface area,** of aerosols, measurement of, laser technique for, 2534.
  - of powdered materials, measurement of, by N adsorption, 2533.
- **Surfactants,** anionic, analysis, 3573.
    - detmn. of SO_4^{2-} in bio-degradation of, turbidim., 3575.
  - of unbranched aliphatic alcohols in unsulphonated portion of, 952.
  - cationic, analysis, 3573.
    - detmn., spectroph., 951.
  - non-ionic, analysis of polyoxyethylene-type, chrom., 1494, 2226.
    - detmn. of ethylene oxide and propene oxide units in, 1495.
- **Sweet corn,** detmn. of iodofenphos and 2,5-dichloro-4-iodophenol in, column - gas chrom., 1167.
- **Sympathomimetic amines,** detmn., by TLC, 2379.
  - identn., in mammalian-heart tissue, mass spectrom., as dansyl deriv., 1597.
    - use of 5-nitrobarbituric acid as reagent for, 1660.
  - sepn., high-voltage electroph., 2357.
- **Syringaldehyde,** sepn. from vanillin and phenols, by GLC, 274.
- **Sylvan.** (See *Furan, 2-methyl-.*)

T

- **TDE,** detmn., in lucerne hay, by GLC, comparison of extraction methods for, 3851.
  - identn., by TLC, 1800.
- **Table salt,** detmn. of F^- in, spectroph., 1741.
- **Tall oil,** analysis, gel-permeation chrom., 1521.
  - detmn. of neutral components in fatty acids of, column chrom., 3600.
    - of unsap. matter in, 3599.
- **Tallow,** detection, in butter, by TLC of saturated triglycerides of, 3802.
  - sepn. of fatty acids of, by use of aq. surfactant soln. and centrifuging, 3079.
- **Tangerines,** detmn. of phenthoate in, colorim., 525
- **Tannins,** detmn., in malt wort and beer, comparison of methods for, 1766.
    - in presence of gallic acid, spectroph., 2909.
  - TLC of, 976.
- **Tantalum,** concn. of, on pyrogallol - formaldehyde resin, 3276.
  - detmn., gravim., 1972, 2696.
    - in minerals, ores or rocks by ion exchange - neutron activation, 3417.
      - paper chrom., 2077.
        - spectrogr., 2075.
    - in niobium, by neutron activation, 2076.
    - in silver, by solvent extraction - X-ray spectrogr., 739.
    - of Nb in, by neutron activation, 2076.
    - photom., 140.
  - sepn. from Nb^{V} or Ti^{IV}, by ion exchange in mixed solvents, 3306.
- **Tantalum, reagents for,** methyl violet, 140.
  - salicylfluorone, 1972.
  - 2′,3′,4′-trihydroxychalcone, 2696.
- **Tantalum boride,** analysis, 822.
- **Tantalum(V) chloride,** sepn. from $NbCl_5$, by reaction with CaF_2 coated with CaO, 138.
- **Tantalum(V) oxide,** detmn. of Mo in coatings of, mass spectrom., 2698.
- **Tar.** (See *Coal tar; Wood tar.*)
- **Tarragon oil,** detmn. of methylchavicol in, spectroph, 2831.
- **Tea,** detmn. of caffeine in, spectroph., 3064.
- **Teeth,** detmn. of CO_3^{2-} in, microscopic, 1011.
    - of F^- in enamel, electrom., with use of the F^--specific electrode, 2878.
    - of monomers used in manufacture of dentures, i.r. spectroph., 2244.
    - of trace elements in enamel, by neutron activation, 1C.
- **Tellurium,** detmn., atomic-absorption spectroph., 2708, 2709.
    - in copper-electrolyte slimes, gravim., 735.
    - in iron and steel, atomic-absorption spectroph., 2743.
    - in objects containing Pt metals and gold, paper chrom., 829.
    - in presence of Sb, As and Se, by neutron activation, 1364.
    - in selenium, a.c. polarogr., 2083.
      - by neutron activation, 831.
    - in semiconductors, by solvent extraction - photom., 146.
      - photom., 147.
    - of μg to ng amounts, by isotope dilution and rate of evaporation from solid surfaces, 3283.
    - of impurities in, atomic-absorption spectroph., 2562.
    - of Te^{IV}, by solvent extraction - spectroph., 832.
      - oscillopolarogr., 2707.
- **Tellurium, reagents for,** 3-(2,3-dimethoxyphenyl)-5-mercapto-1,3,4-thiadiazole-2-thione, 146.
  - 5-mercapto-3-(2-naphthyl)-1,3,4-thiadiazole-2-thione, 146, 832.
- **Terbacil,** detmn., in lucerne, by GLC, 1795.
- **Terephthalic acid,** detmn., in mixture with *p*-toluic acid, potentiom., 3537.

rpene alcohols, detmn., by GLC, 1480.
i.r. spectra of acetates of, 3555.
rpenecarboxylic acids, i.r. spectra of alkyl esters of, 3555.
rphenyls, analysis of mixtures with their hydrogenated deriv., by GLC, 1467.
detmn., in mixtures with biphenyl and quaterphenyl, by GLC, 3530.
sepn. from biphenyl, by GLC, 290.
stosterone, detmn., in biol. tissues, in presence of androst-4-ene-3,17-dione, column - thin-layer chrom., 3677.
in blood plasma, in ultra-micro concn., by GLC as heptafluorobutyrate, 1039.
in urine, simult. with epitestosterone, by TLC and GLC as trimethylsilyl ether, 2311.
sepn. from progesterone and pregnane-3α, 20β-diol, by TLC, 405.
from related steroids, in urine, ion-exchange chrom., 1032.
estosterone esters, detmn. of mixtures of, by GLC, 475.
sepn., of mixtures in oily soln. of, by TLC or temp.-programmed GLC and i.r. spectroph., 474.
etracycline, assay, in blood serum, microbiol., 1551.
in pharm. prep., microbiol., automated, 3751.
detmn., fluorim., 2563.
identn., in mixtures with chloramphenicol and sulphadimethoxine, and detmn., spectroph., 1117.
etradecanesulphonic acid, 2-hydroxy-, Na salt, detmn., by solvent extraction - volum., 1498.
,3,5,7-Tetrazocine, octahydro-1,3,5,7-tetranitro-, identn., microscopic, 3228.
etrazolium blue, nitro-, detmn. of purity of, paper electroph. and by TLC, 2824.
etrazolium chloride, triphenyl-, detmn., photom., 3525.
extiles, detmn. of Cu in, atomic-absorption spectroph., 325.
of H_2O in, apparatus for, 1235P.
examination of aq. extracts of, B.S.I. methods for, 324.
hallium, detmn., anodic-stripping voltamm., 2636.
by neutron activation, substoicheiom. 1C.
by solvent extraction - photom., 2634.
in indium, by solvent extraction - spectroph., 3354.
in organothallium compounds, polarogr., 914.
in presence of Cu, polarogr., 816.
of Pb, Mg, Ag or Zn, amperom., 3303.
mass spectrom., elimination of memory effect in, 1914.
of Tl^{I}, by GLC, as cyclopentadienyl compound, 84.
by luminescence spectra, 3301.
by solvent extraction - spectroph., 3288.
of Tl^{III}, spectroph., 3356.
photom., 2627.
volum., 83, 2633.
sepn. from Au, by co-pptn. with $Fe(OH)_3$, 85.
of Tl^{I} from Cu, Hg and Ag, by solvent extraction as cyclopentadienyl compound, 84.
from Pb, by ion-exchange, 86.
suppression of polarogr. maximum of, by aliphatic alcohols, 3302.
hallium, organic compounds of, detmn. of Tl in, polarogr., 914.
hallium, reagents for, dithizone, 3354.
methyl green, 2634.
methylene blue, 2634.
methylene green, 2634.
toluidine blue, 2634.
xylenol orange, 2627.
Thallium(III) chloride, detmn., potentiom., 2635.
Thebaine, detmn., in opium, simult. with noscapine and papaverine, i.r. spectroph., 2353.
Theobromine, detmn., in aq. soln., conductim., 461.
Theophylline, detmn., in aq. soln., conductim., 461.
in presence of Na acetate or Na salicylate, non-aq. potentiom., 2355.
Thermal analysis, 1968 annual review, 677.
by electrical recording of resistivity, 3255P.
Thermal analysis, differential, detmn. of b.p. and m.p. by, 2531.
relation between peak area and sample size in, 2532.
reporting results in, 4029.
review, 3254.
simult. with measurement of dielectric constant, 4031.
thin-film thermocouples for, 3256.
Thermal analysis, gravimetric, combined with mass spectrometry, 2530.
in flowing gases, apparatus for, 4030.
reporting results in, 4029.
review, 3254.
Thermometry, apparatus for measurement of temp. between 77° and 91° K, 4034.
calculation of small temp. differences from resistance thermometer measurements, equation for, 4035.
factors affecting sensitivity of piezo-electric thermometers, 3257.
measurement of calibration standards for, 4032.
platinum resistance thermometers for calibration between 2° and 273.15° K, 4033.
Thermoplastics. (See under *Plastics.*)
Thermosetting compositions, detmn. of resin in, by pyrolysis - GLC, 1518.
Thiacetazone, detmn., in tablets containing 4-acetamidobenzaldehyde isonicotinoylhydrazone, spectroph., 3775.
containing isoniazid, spectroph., 1705.
Thialbarbitone, identn., i.r. spectroph., 1680.
sepn. from barbiturates or other thiobarbiturates, by TLC, 1127.
Thiamine, detmn., in cheese, spectrofluorim., 515.
in foods, ion-exchange chrom. - fluorim., 3087.
in pharm. prep., ion-exchange chrom. - spectroph., 480.
volum., 481.
solvent extraction of bromophenol blue complex of, 2367.
Thiamine esters, sepn., ion-exchange chrom., and detmn., spectroph., 2930.
2-Thiazoline, 2-amino-, detmn., paper chrom., 1713.
Thiocyanate, sepn. from Cl^-, by ion exchange, 2474.
from selenocyanate, ion-exchange paper chrom., 2667.
Thiols, detmn., in river water, by GLC, as pentafluorobenzyl thio-ethers, 1827.
Thiomolybdate, detmn., amperom., 843.
Thiopentone, detection, by TLC, colour reagent for, 2369.
solvent systems for, 1679.
identn., i.r. spectroph., 1680.
paper electroph., 2372.
sepn. from barbiturates or other thiobarbiturates, by TLC, 1127.
Thiophen, tetrahydro-, detection, in gaseous fuels, composition for, 950.
Thiosulphate, detmn., amperom., 3271.
Thiouracil, methyl-, detmn., amperom., 3007.
Thioridazine, detmn., in urine, spectroph., 2995.
Thiram, detection, on fruits, by TLC, 1750.
detmn., in fruits and vegetables, in presence of related dithiocarbamates, spectroph., 555.

Thiuram, tetra-alkyl-, disulphide, detmn., volum., 1460, 2802.
Thorium, analysis, spectrogr., 95.
  concn. of, on pyrogallol - formaldehyde resin, 3276.
  detmn., by solvent extraction - spectroph., 2649.
    in minerals, ores or rocks, by solvent extraction - gravim. or photom., 1379.
      spectrogr., 2669.
    in presence of Ce^{III}, complexom., 3366.
      of Ce^{IV}, volum., 93.
    in residues from processing of U, 2648.
    of O in, by fusion, 2079.
    of ^{230}Th in minerals, ores or rocks, 2648.
    oscillopolarogr., 2650.
    spectroph., 780, 3311.
  sepn. from rare-earth metals, by ion exchange, 94.
      by TLC, 3368.
    from rare-earth metals, Sc and U^{VI}, by TLC, 3357.
    from Ti, U and Zr, paper chrom., and identn., 1338.
    from Zr, by ion exchange in mixed solvents, 3306.
  solvent extraction of, with benzohydroxamic acid, 2029.
Thorium-B. (See *Lead*-212.)
Thorium-C. (See *Bismuth*-212.)
Thorium, reagents for, bromopyrogallol red, 780.
  3-cyano-1,5-bis(2-hydroxy-5-sulphophenyl)-formazan, 3311.
  methylthymol blue, 2649.
Thorium(IV) chloride, solvent extraction of, from HCl medium, by di-isopentyl methylphosphonate, 2647.
Thorium compounds, detmn. of Al, Cr and Fe in, spectroph., 96.
Thorium iodate, pptn. of, in presence of Ce, optimum temp. for, 1380.
Thorium(IV) oxide, detmn. of Ti in, as Ti^{IV} gallate, by solvent extraction - spectroph., 118.
Threonine, detmn., amperom., 3271.
Thulium, detmn., atomic-absorption spectroph., 2644.
Thyme, detmn. of thymol and carvacrol in, by GLC or spectroph., 489.
Thymidine, detmn., in urine, after X-irradiation, ion-exchange - paper chrom., 1631.
—, 5′-phosphate, detmn., in DNA hydrolysate, in presence of deoxycytidine 5′-phosphate, column chrom. - u.v. spectroph., 2955.
Thymine, micro-sublimate of, properties and photomicrograph of, 434.
Thymol, detmn., in thyme and wild thyme, comparison of methods for, 489.
—, 4-chloro-, detmn., gravim., by reaction with 1-fluoro-2,4-dinitrobenzene, 2381.
    in pharm. products, by GLC, 3003.
Thyroid hormones, sepn., by temp.-programmed GLC of trimethylsilyl deriv., 3754.
Thyronine, iodo-, sepn. from iodotyrosine, paper chrom., buffer soln. for, 2329.
—, tri-iodo-, sepn., from biol. materials, molecular sieve-coated adsorbent for, 3605P.
  sepn. from iodo- and di-iodo-tyrosine and thyroxine, by gel filtration, 1061.
    of isomers of, from thyroxine, by TLC, and detmn., spectroph., 1122.
—, [^{131}I]tri-iodo-, detmn., in blood serum, by uptake on resin and scintillation counting, 1062.
Thyroxine, detmn., in blood serum, ion-exchange chrom. - colorim., 1610.
Thyroxine,—*continued*
  sepn. from iodotyrosines, by GLC of the trimethylsilyl deriv. of, 3703.
      by gel filtration, 1061.
    from 3,3′,5- and 3,3′,5′-tri-iodo-thyronines, by TLC, and detmn., spectroph., 1122.
Tin, analysis, spectrogr., 2053.
  concn. of, in rocks or soil, by ion exchange, 3479.
    on pyrogallol - formaldehyde resin, 3276.
  detmn., a.c. polarogr., 1970.
    atomic-emission spectroph., in diffusion flames, 3386.
    in Sb - Pb alloys, photom., 2052.
    in ferrous metals, spectroph., 864.
    in iron, complexom. or spectroph., 2740.
    in lead or Pb - Sb alloys, spectroph., 798.
    in minerals, ores or rocks, atomic-absorption spectroph., 3387.
      photom., 2051.
      X-ray spectrogr., portable apparatus for, 3388.
    in non-ferrous alloys, by GLC of chlorides, 792.
    in org. materials, spectroph., 2397.
    of 10^{-6} to 10^{-15} amounts, by isotope dilution and rate of evaporation from solid surfaces, 3283.
    of Sb, Bi and Fe in materials containing, photom., 36.
    of B in, fluorim., 115.
    of P in, by solvent extraction - photom., 116.
      photom., 117.
    of Sn^{IV}, spectroph., 796.
    spectroph., 797.
  solvent extraction of Sn^{IV} from HCl medium by tetrahexylammonium chloride in dichloroethane, 2556.
—, butylchloro-, detmn., complexom., 916.
—, dibutyl-, perchlorate, detmn., coulom., 3249.
—, dibutyldichloro-, detmn., polarogr., 916.
—, dipropyl-, perchlorate, detmn., coulom., 3249.
—, di(tribytl)-, oxide, detmn., in aq. soln., photom., 2848.
—, tetra-allyl-, sepn. from allyltriphenyl- and isobutyltriphenyl-tin, by TLC, 3528.
—, tetraphenyl-, sepn. from chlorophenyl deriv. by TLC, 2662.
—, tributyl-, acetate, detmn., in aq. soln., photom., 2848.
  terephthalate, detmn., in wood, X-ray spectrogr., 2233.
Tin, organic compounds of, alkyl-, carboxylates, detmn. of anion in, volum., 224.
  detmn., polarogr., 915.
Tin, reagents for, butylrhodamine 2051.
  dimercaptothiopyran-4-one, deriv. of, 796.
  gallein, 798.
  4-hydroxy-3-nitrobenzenearsonic acid, 2052.
  morin, 797.
  phenylfluorone, 864, 2740.
  zinc dithiol, 2397.
Tin(II) chloride, detmn. of trace elements in, polarogr., 3389.
Tin(II) telluride, analysis, potentiom., automated, 3424.
Tin(IV) oxide, analytical study of ‘pinks’ (reaction products with $K_2Cr_2O_7$), 2054.
Tinplate, detmn. of tin coating on, B.S.I. method for, 178.
Titanium, concn. of, on pyrogallol - formaldehyde resin, 3276.
  detection, flame-emission spectroph., 1334.
    of Ti^{IV} on paper chromatograms, 803.
  detmn., atomic-absorption or atomic-fluorescence spectroph., source for, 1896.

tanium, determination—*continued*
by solvent extraction - spectroph., as Ti^{IV} gallate, 118.
cathode-ray polarogr., 33.
complexom., by amperom. titration, 3390.
in graphite, spectrogr., 1386.
in ilmenite, photom., 1418.
in iron and steel, spectroph., 2114.
in minerals, ores or rocks, as Ti^{IV} gallate, by solvent extraction - spectroph., 118.
spectroph., 2677.
in presence of Al and Fe, paper chrom., 804.
in steel, as Ti^{IV} gallate, by solvent extraction - spectroph., 118.
spectroph., 3458.
in Th^{IV} oxide, as Ti^{IV} gallate, by solvent extraction - spectroph., 118.
in Ti - Zr ores, by gamma-ray activation, 2062.
of Cl in, X-ray spectrogr., 2059.
of ^{2}H in, spectrogr., with hollow-cathode discharge, 805.
of Nb in, spectroph., 139.
of O in, 3393.
spectroph., 801, 802, 2058.
sepn. from Fe, by ion-exchange, 3392.
from Nb and Ta, by solvent extraction, 3391.
from other metals, ion-exchange chrom., in malonate media, 2560.
paper chrom., 804.
from Th, U and Zr, paper chrom., and identn., 1338.
of Ti^{IV} from Al and Fe^{III}, paper chrom., 711.
from other cations, paper chrom., 711.
from Ta, by ion-exchange in mixed solvents, 3306.
solvent extraction of, as complex with salicylohydroxamic acid, spectroph., study of, 1971.
-, cyclopentadienyl-, trichloride, detmn., paper chrom., 3549.
-, dicyclopentadienyl-, dichloride, detmn., paper chrom., 3549.
itanium, reagents for, diantipyrinylmethane, 2114, 2677.
Fast grey RA, 2058.
naphthalene-1,8-diol, 3458.
N-phenylbenzohydroxamic acid, 801.
sulphosalicylic acid, 802, 804.
itanium boride, detmn. of Ti in, 1394.
itanium carbide, detmn. of free C in, by combustion, 3377.
of Ti in, 1394.
itanium(IV) chloride, detmn. of Fe and S in, spectrogr., 3394.
itanium hydride, detmn. of O in, 3393.
itanium(IV) oxide, detmn. of La in, by neutron activation, 1395.
of stoicheiometry of, by neutron activation, 2073.
of Ti in, photom., 806.
itanium(IV) sulphate, of Cu oscillopolarogr., 1396.
obacco. (See also *Cigarettes*.)
analysis of hemicellulose in stems of, chrom., 3649.
detmn. of carbamate pesticides in, by solvent extraction - TLC, 3638.
of fatty acids in, radiom. or gas chrom., 2295.
of glycol humectants in, by solvent extraction - temp.-programmed GLC, 1559.
of nicotine in, by GLC, 1600.
colorim., 2929.
of NO_3^- in, spectroph., automated, 2275.
of organochlorine pesticides in, chrom., 2426.
column - gas chrom., 3637.

Tobacco, determination—*continued*
of scopolin and scopoletin in, by TLC - fluorim., 3651.
of starch in, spectroph., 1019.
of sugars in, spectroph, 1013.
of H_2O in, temp.-compensation device for, 1234P.
solvent extraction of, in a Waring Blendor, 1526.
Tobacco alkaloids, amino-deriv. of, sepn. as 2-hydroxy-5-nitrobenzylidene deriv., by GLC, 907.
Tobacco plants, detmn. of ^{32}P in, *in situ*, with Geiger-Mueller counter, 2874.
Tobacco smoke, detmn. of benzo[*a*]pyrene in, by GLC, 3652.
of carbamate pesticides in, by solvent extraction - TLC, 3638.
of fatty acids in, radiom. or gas chrom., 2295.
of nicotine in, by GLC, 1600.
of organochlorine pesticides in, by GLC or TLC, 2426.
column - gas chrom., 3637.
solvent partition and sepn. of polycyclic aromatic hydrocarbons in, column chrom., 373.
Tocopherol, alpha-, detmn. in blood serum, in presence of carotenoids, paper chrom., 3727.
in feeding-stuffs, chrom. methods for, 3846.
Tocopherols, analysis, in vegetable oils, by TLC, 3824.
detmn., in blood serum, spectroph., 1647.
sepn., by GLC, 336.
from isoprenoid quinones, in wheat, column chrom., and detmn., by GLC, 3833.
Tocotrienols, detmn., by GLC, 3601.
Tolazoline, detmn., in pharm. prep., u.v. spectroph., 2998.
identn., in presence of phentolamine, antazoline and naphazoline, by TLC, 3784.
***o*-Tolidine,** detmn., complexom., 3538.
Toluene, deuterated, isotopic analysis of, by GLC, 248.
—, chloro-, sepn. of deriv. of, by TLC, 2662.
of *o*- and *p*-, by GLC, 274.
—, di-isocyanato-, detmn., in air, test-paper method and stains for, 565.
spectroph., 285.
—, dinitro-, detmn. of mono- and tri-nitrotoluenes in, by TLC, 1474.
—, ethyl-, analysis of products of dehydrogenation of, by GLC, 1466.
—, 2,4,6-trinitro, detmn. of isomers of, and 2,4-dinitrotoluene in, by NMR, 977.
Toluenediamine, sepn. and detmn., of isomers of, by GLC, 3540, 3603.
Toluene-*p*-sulphonic acid, detmn., paper chrom. or electroph., 286.
***p*-Toluic acid,** detmn., in mixture with terephthalic acid, potentiom., 3537.
Toluidine, detection of nitro-deriv. of, 284.
detmn. of deriv. of, photom., 2198.
sepn. of isomers of, by GLC, 1481.
***p*-Toluidine,** detection of *m*- and *o*-isomers in, 284.
Toothpaste, detmn. of F^- in, potentiom., 2229.
Town gas, analysis, scheme for, 2144.
detmn. of aromatic compounds in, apparatus for, 3908P.
of H_2O in, by GLC, 3314.
Toxaphene. (See *Camphechlor*.)
Toxicological analysis, detection of glutethimide in autopsy material in, by TLC - mass spectrom., 370.
of ouabain in cadaver material in, paper chrom., 1000.
detmn. of As in biol. material in, spectroph., 992.
of Cd in autopsy materials in, 359.

Toxicological analysis, determination—*continued*
    of neutral and acid drugs in biol. fluids in, TLC - spectroph., 369.
  identn. of alkaloids in autopsy materials in, paper electroph., 366.
  identn. of barbiturates in autopsy materials in, by GLC combined with TLC, 368.
  review, 1947C.
  sepn. of AsO_2^- from AsO_4^{3-} in autopsy material in, paper chrom., 991.
    of strychnine and securinine in, by TLC, 2883.
Trace elements. (See also under *Metals.*)
  detmn., anodic-stripping voltamm., 24.
    in plants, spectrogr., 2857.
    spectrogr., use of single calibration graph in 17.
    X-ray spectrogr., 1328.
  sepn. and detmn., by solvent extraction, review, 705.
Tranquillisers, identn., by TLC, 486.
Transferrin, detmn., in blood serum, simult. with immunoglobin G, paper electroph. - spectroph., 3715.
    of Fe in, spectroph., 2880.
Trehalose, detmn., by oxidation with IO_4^-, 897.
1,3,5-Triazine, chloro-, detmn., in water, soil and crops, colorim., comparison of methods for, 1186.
1,3,5-Triazine-2,4,6-trione, detmn. of isocyanurates of deriv. of, by GLC, 3560.
1,2,4-Triazole, 4-amino-, TLC of 3,5-disubstituted deriv., 2822.
Triazolium salts, analysis, by TLC, 2823.
Trichlorphon, detmn., in animal dips, automated coulom., 1804.
    in milk, in presence of dichlorvos, by TLC, 3811.
    of total Cl and inorg. Cl^- in formulations of, potentiom., 1188.
Trifluperazine, detmn. of F in, volum., after O-flask oxidation, 457.
Trilinolein, detmn. of free aldehydes in autoxidised samples, review of methods for, 3822.
Trilinolenin, detmn. of free aldehydes in autoxidised samples, review of methods for, 3822.
Trimellitic anhydride, detection of trimellitic acid in, i.r. and u.v. spectroph., 2806.
Trimeprazine tartrate, sepn. from related phenothiazine deriv., by TLC, 1694.
Trimethobenzamide, identn., microscopic, 1701.
Trimipramine, detmn., in autopsy materials, spectroph., 2284.
    in pharm. prep., colorim., comparison of methods for, 1698.
Trioctylamine, detmn., photom., 3525.
Triolein, detmn. of free aldehydes in autoxidised samples, review of methods for, 3822.
Trisaccharides. (See under *Sugars.*)
Triterpenes, identn., in shale, by GLC - mass spectrom., 2827.
Tritium, detmn., by scintillation counting, prepn. of mixtures for, 3251.
    in air, by liquid scintillation counting, 1193.
    in biol. materials, by scintillation counting, modification of combustion method for, 980.
    in biol. tissues, by liquid scintillation counting, 1538.
    in labelled compounds, by flow-monitoring counter, 3485.
    in urine, A.E.R.E. procedure for, 979.
Tryptamine, prepn. and structural analysis of trimethylsilyl deriv., by GLC - mass spectrometry, 3685.
  sepn. from phenolic compounds, by gel-filtration chromatography and fluorim. monitoring of eluates, 1599.
Tryptamine, *NN*-dimethyl-, detmn., by GLC-mass spectrom., as trimethylsilyl deriv., 3685.
—, 5-hydroxy-, detection, on paper or thin-layer chromatograms, by heating with paraformaldehyde, 2316.
  detmn., in blood, stabilisers for samples in frozen storage, 3686.
    in brain, in presence of dopamine and noradrenaline, fluorim., 1598.
    in urine, spectrofluorim., 1051.
  identn., on TLC plates, spectrofluorim., 1313C.
—, *N*-methyl, detmn., by GLC - mass spectrom., as trimethylsilyl deriv., 3685.
Tryptophan, detmn., in lysozyme, comparison o methods for, 3702.
  in maize, enzymic - spectroph., 2415.
  in wool, spectroph., 1508.
  of free and total non-protein-bound, in blood plasma, spectroph., 1609.
  resolution of racemic, by GLC, 2328.
Tubocurarine, detmn., in biol. tissues, in presence of other alkaloids, ion-exchange chrom., spectroph., 367.
Tung oil, column chromatography of methy elaeostearates prepared from, 338.
Tungstate, detmn., by pptn. titration with $Pb(NO_2)_2$, 37.
Tungsten, concn. of, on pyrogallol - formaldehyde resin, 3276.
  detection, flame-emission spectroph., 1334.
  detmn., in Cr - Co - Ni alloys, fluorim., 1409.
    in minerals, ores or rocks, gravim., 2716.
      X-ray spectrogr., 2718.
    in molybdenum, sepn. by counter-curren extraction, 844.
    in presence of Mo, spectroph., 846.
    in vegetables, by neutron activation, 518.
    of impurities in, by neutron activation, 3429.
      mass spectrom., 3431.
      spectrogr., 154.
    of N in foils, spectrogr., 3286.
    of W^{VI}, complexom., 2717.
    u.v. spectroph., as peroxytungstic acid, 3430.
  pptn. of, as tungstic acid, effect of org. reagent on, 845.
  sepn. of W^{6+} from other cations, paper chrom. 711.
Tungsten, reagent for, 3-hydroxyflavone, 1409.
Tungsten alloys, detmn. of W in, fluorim., 1409.
Tungsten bronze, detmn. of Ho, La and U in, by neutron activation, 847.
Tungsten(VI) oxide, detmn. of impurities in, X-ray spectrogr., 2092.
Tungsten oxide chloride, detmn., gravim., 3279.
Turpentine oil, GLC of, 3662.
Tutin, detmn., in honey, in presence of hyenanchin comparison of methods for, 2399.
Type metal. (See under *Lead alloys.*)
Tyramine, 3-methoxy-, detmn., in urine, in presence of 3-*O*-methylnoradrenaline and 3-*O*-methyl adrenaline, by GLC, 3684.
***m*-Tyramine, α-methyl-,** detmn., in biol. tissues ion-exchange chrom., 2938.
Tyrosine, detmn., in blood, fluorim., 2936.
    in presence of phenylalanine, enzymic - spec troph., 2937.
—, 3,5-di-iodo-, sepn. from iodotyrosine, tri iodothyronine and thyroxine, by ge filtration, 1061.
    from related iodotyrosines and thyroxine by GLC of trimethylsilyl deriv., 3703.
—, 3-iodo-, sepn. from di-iodotyrosine, tri-iodo thyronine and thyroxine, by gel filtration 1061.

yrosine, 3-iodo-, separation—*continued*
    from iodothyronine, paper chrom., buffer soln. for, 2329.
    from related iodotyrosines and thyroxine, by GLC of trimethylsilyl deriv., 3703.
-, 3,3′,5′-tri-iodo-, sepn. from related iodotyrosines and thyroxine, by GLC of trimethylsilyl deriv., 3703.

U

biquinone, detmn. of biosynthetic precursors of, by use of ^{14}C-labelled 4-hydroxybenzoic acid, column or thin-layer chrom. and scintillation counting, 2300.
  identn., by GLC, 442.
biquinone 10, detmn., in blood, by TLC - spectroph., 1104.
ndecenoic acid allyl ester, sepn. from undecenyl acrylate, by TLC, 1516.
ndecenoic acid vinyl ester, sepn. from allyl undecenyl ether, by TLC, 1516.
racil, micro-sublimates of, properties and photomicrographs of, 434.
-, 5-bromo-, sepn. from DNA bases, by TLC, 1642.
-, 5-chloro-, detmn. of F in, by O-flask method, 457.
-, 5-mercapto-6-aza-, detmn., in urine, paper chrom., 1555.
-, 5-β-D-ribosyl-, detmn., in urine, in presence of 1,2-dihydro-1-methyl-2-oxonicotinamide, paper chrom., 1630.
ranium, adsorption of, by ion-exchange resins in presence of ferricyanide, 785.
  concn. of, on pyrogallol - formaldehyde resin, 3276.
  detmn., amperom., 2035.
    by solvent extraction - photom., 2554.
    fluorim., in tributyl phosphate - Sintin medium, 784.
    in minerals, ores or rocks, atomic-absorption spectroph. - fluorim., 3998.
      cathode-ray polarogr., 1381.
      spectroph., 781.
    in molten LiCl - KCl eutectic, chronopotentiom., 100.
    in plutonium, oscillopolarogr., 2660.
    in soil, atomic-absorption spectroph. - fluorim., 3998.
    in solids, by neutron activation and microscopy, 1383.
    in soln. in tributyl phosphate, spectroph., 98.
    in tungsten bronze, by neutron activation, 847.
    in urine, A.E.R.E. procedure for, 979.
      simult. with its isotopes and alpha-activity, mass spectrom., 988.
    of C in, sampling for, 2654.
    of natural, in potable water, by liquid scintillation counting, 3869.
    of Nb, Ta and Ti in, spectrogr., 1382.
    of O in, by fusion, 2079.
    of U^{VI}, by h.f. titration, as complex with cupferron, 1339.
      by solvent extraction - spectroph., 782, 3370.
      in presence of Th and rare-earth metals, spectroph., 2033.
      in urine, in presence of Pu^{IV} and Np^{IV}, 3612.
      photom., 2034, 2651.
      spectroph., 3371.
      volum., 97.
    of ^{235}U to ^{238}U ratio, by neutron irradiation, 2032.
    of ^{133}Xe and ^{133m}Xe in irradiation products of ^{235}U, spectrogr., 2656.
Uranium, determination—*continued*
      oscillopolarogr., 2650.
      photom., in HNO$_3$ soln., 783.
      polarogr., 99.
      spectroph., 1426.
  isotopic analysis of, mass spectrom., 1912.
  sepn. from other metals, by ion-exchange, 2037.
    from rare-earth metals, by TLC, 3368.
    from Th, Ti and Zr, paper chrom., and identn., 1338.
    of U^{VI} from Ce^{III}, Co^{II}, Cu^{II}, Fe^{III} and Ni^{II}, paper electroph., in formaldoxime medium, 786.
      from rare-earth metals, Sc and Th, 3357.
      from U^{IV}, by ion exchange, 2652.
Uranium, reagents for, arsenazo III, 2034, 3370.
  dibenzoylmethane, 3371.
  dimethyl(selenocarbamoyl) dimethyldiselenocarbamate, 2554.
  4,4′-ethylidenebis(3-methylisoxazolin-5-one), 1426.
  2-thenoyltrifluoroacetone, 98.
  2-thiobarbituric acid, 781.
Uranium alloys, detmn. of U in U - Ni, by solvent extraction - spectroph., 782.
Uranium carbides, detmn. of N and O in, comparison of methods for, 20.
    of O in, 20.
    of UC and UC$_2$ in mixtures, by X-ray diffraction, 788.
Uranium nitride, detmn. of N in, 20.
      and O in, 2039.
        comparison of methods for, 20.
    of O in, by fusion, 2079.
Uranium oxides, detmn. of impurities in, spectrogr., 787.
    of O to U ratio in, polarogr., 101.
      volum., 3373.
Uranium phosphide, detmn. of UO$_2$ in, gravim., 2040.
Uranium(IV) salts, detmn. of acid or base in soln. of, 2038.
Uranyl ion, complex with dihydroxymaleic acid, study of, spectroph., 2033.
  detmn., spectroph., 781.
  sepn. from Cu^{2+} and Fe^{3+}, paper chrom., 3304.
    from fission products, ion-exchange chrom., 2653.
    from La, paper electroph., 2641.
    from other elements, by ion exchange, 2036.
Urea, detmn., in blood, automated, 2901.
    in blood serum and urine, simult. with creatinine, automated, 2318.
    of biuret in, ion-exchange chrom. - complexom., 1183.
    polarogr., 3844.
—, 1,3-dicyclohexyl-, detection on TLC plates, 3706.
—, thio-, detection, as S-methyl deriv., 1459.
    detmn., volum., 270.
Uric acid, detection, in flour, enzymic - spectroph., 3017.
      on paper chromatograms, with tetra(acetoxymercuri)fluorescein, 3693.
  detmn., in blood plasma, in presence of xanthine and hypoxanthine, by TLC, 1080.
    in blood serum, photom., automated, 2925.
  recovery from blood serum, after pptn. of proteins, 1629.
Uridine, detmn., in pharm. prep., in presence of adenosine, guanosine, inosine and cytidine, paper chrom. or electroph. - spectroph., 1147.
—, 5-iodo-2-deoxy-, detmn., in c.s.f. and blood serum, enzymic - spectroph., 1633.

Uridine 5′-phosphate, detmn., in presence of nicotinamide and inosine, thin-layer - chrom. - spectroph., 2958.
Urine, analysis, anion-exchange chrom. - spectroph., 1527.
    high-pressure anion-exchange chrom. - u.v. spectroph., 2853.
    u.v. spectroph., 1529.
  assay of amylase in, 1313C.
    of pepsin in, 1101.
  detection of ^{64}Cu and ^{42}K in, removal of ^{24}Na from, 1535.
    of glucose in, reagent and test paper for, 3643P.
    of glutethimide in, by TLC - mass spectrom., 370.
    of thymeretics in, 1313C.
  detmn. of ^{227}Ac in, ion-exchange chrom. - alpha-counting, 987.
    of adrenaline, noradrenaline and dopamine in, by GLC, as trifluoroacetates, 2927.
    of alpha-activity of, by adsorption on glass-fibre filter paper and counting, 2868.
    of amino-acids in, by ion exchange - paper chrom., 2934.
      by TLC, 3695.
      ion-exchange chrom., automated, 2321.
    of amino-N in, spectroph., 3682.
    of 5-aminolaevulic acid in, storage of samples for, 2950.
    of amitriptyline in, in presence of its metabolites, by TLC, 3626.
    of amphetamine, methylamphetamine and ephedrine in, by TLC - colorim., 3627.
    of androst-16-en-3-ols in, by GLC as trimethylsilyl and chloromethyldimethylsilyl ethers, 3678.
    of As in, atomic-absorption spectroph., as molybdoarsenic acid, 993.
    of ascorbic acid in, spectroph., 3660.
    of Be in, atomic-absorption spectroph., 1814.
    of Bi in ion-exchange chrom. - polarogr., 2276.
    of brompheniramine in, by solvent extraction - GLC, 2285.
    of Cd in, atomic-absorption spectroph., 357, 358.
    of Ca in, flame spectroph., 2859.
      and Mg in, ion-exchange chrom. - complexom., 985.
    of carbohydrates in, ion-exchange chrom., automated, 2290.
    of ^{14}C-labelled-lipid metabolites in, by TLC and scintillation counting, automated, 2302.
    of carboxylic acids in, column chrom. - volum., 2294.
    of catecholamines and their metabolites in, by TLC, 3683.
      and (4-hydroxy-3-methoxyphenyl)ethanediol in, by TLC, 411.
    of chlordiazepoxide and nitrazepam in, 2283.
    of chlorphentermine in, by GLC, 3628.
    of chorionic gonadotrophin in, volum., 3714P.
    of Cu in, atomic-absorption spectroph., 2858.
      and Zn in, atomic-absorption spectroph., 1539.
    of corticosteroids in, by GLC, 2310.
      by TLC, 2922.
    of creatinine in, in presence of bilirubin, automated, 2928.
      ion-exchange chrom. - spectroph., 1047,1048.
      and urea in, automated, 2318.
    of deoxycytidine in, ion-exchange chrom. - colorim., 1632.
      - spectroph., 2957.
Urine, determination—*continued*
    of 2-dimethylamino-3′,4′-dihydroxyacetophenone in, ion-exchange chrom. - spectroph., 3629.
    of ethanol in, by GLC, 3636.
    of F$^-$ in, by GLC as fluorotrimethylsilane, 3619.
      photom., semi-automated, 3618.
    of glucose in, enzymic, 2900.
        - fluorim., semi-automated, 374.
        spectroph., 1562.
    of glutethimide and its metabolites in, by TLC - GLC, 2889.
      and 2-phenylglutarimide in, by GLC, 3625.
    of glyceric acid in, by isotope dilution - ion-exchange - paper chrom., 385.
    of hexamethylmelamine in, ion-exchange chrom. - spectroph., 1007.
    of hydrocortisone, ^{3}H-labelled, in, by liquid scintillation counting, 1040, 2886.
    of 3-hydroxybutyrate and acetoacetate in, enzymic - fluorim., 390.
    of 17-hydroxycorticosteroids in, spectroph., interference by formaldehyde-forming drugs in, 1594.
    of 5-hydroxykynurenine in, by ion-exchange - paper chrom. - spectroph., 420.
    of 4-hydroxy-3-methoxymandelic acid in, by ^{14}C-labelling and thin-layer electroph., 392.
      spectroph., interference of nalidixic acid in, 393.
    of 4-hydroxy-3-methoxyphenylacetic acid in, paper chrom. - spectroph., 394.
    of 4-hydroxy-3-methoxyphenylethanediol, in, 1024.
    of 5-(*p*-hydroxyphenyl)-5-phenylhydantoin in, by TLC - spectroph., 371.
    of 5-hydroxytryptamine in, spectrofluorim., 1051.
    of imipramine in, in presence of related compounds, by TLC - spectroph., 2284.
    of ^{131}I in, as I$^-$, gravim. and radiom., 2879.
    of kynurenic and xanthurenic acids in, ion-exchange chrom. - fluorim., 1063.
    of Pb in, atomic-absorption spectroph., 361, 989.
    of lipids in, by solvent extraction - TLC and GLC, 1580.
    of Li in, atomic-absorption spectroph., 981, 982.
    of Mg in, fluorim., 984.
    of 5-mercapto-6-azauracil in, paper chrom., 1555.
    of Hg in, atomic-absorption spectroph., 2435.
      by isotope exchange, 2864.
      by neutron activation, 1543.
      enzymic - spectroph., 1719.
    of 3-*O*-methyladrenaline and 3-*O*-methylnoradrenaline in, ion-exchange chrom., 1044.
        and 3-methoxytyramine in, by GLC, 3684.
    of methylimidazolylacetic acid in, by GLC, 3690.
    of methylmalonic acid in, by TLC - GLC, 391.
    of N in, by Kjeldahl method - spectroph., 2871.
    of oestriol in, in presence of related oestrogens, spectroph., 1036.
    of oestrogens in, by TLC - GLC, 1035.
      comparison of methods for, 1590.
      spectrofluorim., 1589.
    of 17-oxosteroids in, by TLC, 3676.
    of phenothiazine deriv. in, spectroph., 2995.
    of phenytoin in, u.v. stectroph., 1554.
    of PO_4^{3-} in, atomic-absorption spectroph., 990.
      spectroph., 2872.

ine, determination—*continued*
of Pu^{IV}, Np^{IV} and U^{VI} in, 3612.
of ^{239}Pu in, A.E.R.E. sampling procedure for, 2274.
of pregnanediol in, removal of chromogens in, 1313C.
of pregnane-3α,17,20α-triol and 3α,17,20α-trihydroxypregnan-11-one in, column - gas chrom., 3674.
of pyridoxine group in, column chrom. - fluorim., 2959.
of pyrimidines in, after X-irradiation, ion-exchange - paper chrom., 1631.
of radioisotopes in, A.E.R.E. procedures for, 979.
of 5-β-D-ribosyluracil and 1,2-dihydro-1-methyl-2-oxonicotinamide, in, paper chrom., 1630.
of saccharin sodium, Na and K in, standardised ion-specific electrodes for, 2856.
of steroids in, by TLC, 2919.
enzymic - colorim., 2308.
paper chrom., automated, with data processing by computer, 2921.
of ^{90}Sr in, by oxalate pptn. and beta-counting for ^{90}Y, 354.
of structure of low-mol.-wt. compounds in, by NMR, 1530.
of tetrahydrocortisone in, paper chrom. - densitom. or spectroph., 1595.
of ^{3}H, ^{14}C and ^{35}S in, radiom., by combustion in plastic bags, 350.
of U in, simult. with its isotopes and alpha-activity, mass spectrom., 988.
of urobilin in, fluorim., 2951.
of xanthine and hypoxanthine in, enzymic - spectroph., 2337.
extraction of steroid conjugates from, ion-exchange chrom., 1032.
identn. of aflatoxin M_1 in, by ref. index of crystals and X-ray diffraction, 1574.
of amino-acids in, electroph. - circular TLC, 419.
of barbiturates in, by TLC, 3623.
of biphenyl metabolites in, by TLC - u.v. spectroph., 3639.
of 2,5-dihydroxyphenylacetic acid in, by TLC, 395.
of phenothiazine drugs in, 1003.
of psychotomimetic drugs in, by TLC, 1005.
of sugars in, by TLC, 3641.
isolation of aldrin and dieldrin metabolites from, column - gas chrom., 2895.
paper chromatography of steroids in, 2914.
screening tests for substances indicative of metabolic disorders in, 2264.
sepn. of amino-acids from, thin-layer high-voltage electroph., 1528, 1605.
of glucuronides in, thin-layer or ion-exchange chrom., 2907.
of org. Br compounds from, paper and thin-layer chrom., and detmn. X-ray spectrogr., 2280.
of 17-oxogenic steroids in, by solvent partition, 2916.
of porphyrins in, by TLC on talc, 1075.
of sugars from, by TLC, 1528, 3640.
robilin, detmn., in urine, fluorim., 2951.
sepn. from stercobilin, by TLC, 1627.
ronic acids, analysis, i.r. spectroph., 1567.
sepn. from uronic acid-containing oligosaccharides, ion-exchange chrom., automated, 1570.
roporphyrin, sepn. from related porphyrins, in urine and bile, by TLC on talc, 1075.

V

Vacuum salt, analysis, B.S.I. methods for, 519.
Valine, detmn., cerim., 2326.
Valves, greaseless, for mercury reservoirs, 584.
Vanadium, detection, flame-emission spectroph., 1334.
detmn., atomic-absorption spectroph., 134.
atomic-absorption or atomic-fluorescence spectroph., source for, 1896.
in catalysts, photom., 2072.
in graphite, spectrogr., 1386.
in minerals, ores or rocks, atomic-absorption spectroph., 3412.
in org. compounds, by combustion, 144.
in presence of Cr, Fe and Ni, by ion exchange, 3310.
in sea water, in presence of Mo, chelating ion-exchange chrom. - spectroph., 1212.
in steel, X-ray spectrogr., 2741.
of V^{III}, potentiom., 2694.
volum., 2694.
of V^{V} in presence of Cr^{VI}, volum., in H_3PO_4 medium, 2565.
spectroph., 131, 132.
volum., 2071.
photom., 133, 823.
Vanadium, reagents for, 3-amino-5-hydroxynaphthalene-2,7-disulphonic acid, 132.
5,7-dibromo-8-hydroxyquinoline, 823.
3,3′-dimethylnaphthidine, 131.
3,4-dinitrocatechol, 133.
Vanadium oxides, detmn. of stoicheiometry of, by neutron activation, 2073.
of V and O in, spectroph. and by GSC, 135.
—, V_2O_5, detmn. of impurities in, by neutron activation, 136.
of Li in, flame photom., 2695.
Vanilla extract, detmn. of 'lead number' of, complexom., 3052.
Vanillin, sepn. from syringaldehyde and phenols, by GLC, 274.
Vanillylmandelic acid. (See *Mandelic acid, 4-hydroxy-3-methoxy-*.)
Vegetables, detmn. of ascorbic acid in, paper chrom. - volum. or spectroph., 3088.
of Ca in canned, complexom., 3045.
of dicofol in, spectroph., 3058.
of dimexan in, spectroph., 545.
of dithiocarbamate fungicides in, spectroph., 555.
of malathion and malaoxon in, by solvent extraction - GLC, 1168.
of Mo and W in types rich in Ca, by neutron activation, 518.
of organochlorine pesticides in, column - gas chrom., 524.
of pesticides in, by GLC, 3059.
sampling of, B.S.I. methods for, 517.
Vinyl chloride. (See *Ethylene, chloro-*.)
Vinylbitone, detection of decomposition products of, by TLC, 1683.
Vinylidene cyanide. (See *Malononitrile, methylene-*.)
Viomycin, sepn. from other tuberculostatic antibiotics and identn., by TLC, 3750.
Viscose, colour reactions of squeezed fibre tips of, 962.
Vitamin A, detmn., in biol. tissues, by TLC - fluorim. 1090.
in multi-vitamin prep., spectroph., automated, 2983.
Vitamin A palmitate, detmn., in ointments containing anhydrous lanolin, by TLC - spectroph. or colorim., 478.

Vitamin B$_1$. (See *Thiamine.*)

Vitamin B$_{12}$. (See also *Cobalamin, cyano-.*)
- detmn., in blood serum, radiom., use of ^{57}Co-labelled cyanocobalamin as standard in, 2960.

Vitamin D. (See also *Cholecalciferol; Ergocalciferol; Precalciferol.*)
- assay of calciferol and precalciferol in, biol., precautions against isomerisation in, 3752.
- detmn., in presence of vitamin esters, column chrom. - spectroph., 479.
- TLC of, 1646.

Vitamin D$_2$. (See *Ergocalciferol.*)

Vitamin D$_3$. (See *Cholecalciferol.*)

Vitamin K group, analysis, by GLC, 442.

Vitamins, water-soluble, sepn., by TLC on starch, 1645.

Voltammetry, behaviour of couples Br^- - Br, Br^- - Br_3^-, Br^- - HBrO and Br^- - BrO^-, in, 1322.
- linear-sweep, modular solid-state unit for, 3238.
- purification of acetonitrile for, 2521.

Voltammetry, anodic-stripping, choice of optimum conditions for, 660.
- chronopotentiom., from hanging-drop mercury electrode, 3246.
- electrode for, 1923.
- increase in sensitivity of, 1925.
- polarogr. coeff. of metals in, 701.

Voltammetry, cathodic-stripping, applications, in org. analysis, 664.

Volume, measurement of, apparatus for small, 1832.

Volumetric analysis (*general*), calculation of equivalence-point in, 682.
- equation for curve of spectroph. extractive titrations, 3911.
- non-aq., review, 683.
- reliability of apparatus for, 3896.

Volumetric analysis, acid - base, extrapolated end-points in, 586.
- of mixtures of acids, differentiating action of immiscible solvents in, 1320.

Volumetric analysis, amperometric, 1968 annual review, 677.
- applications of H_2O_2 in, 3268.
  - of KIO_4 in, 3271.
  - of $NaNO_2$ in, 3269.
- end-point detection in, by theoretical slope, 3242.
- use of a.c. oscillopolarograph for, 4023.
  - of SO_3^{2-} as titrant in, 688.

Volumetric analysis, chronopotentiometric, of multi-component systems, technique for, 3245.

Volumetric analysis, complexometric, biamperometric indication in, 665.
- comparison of standards for, 2543.
- detmn. of end-points in, by h.f. oscillator, 707.
- extrapolated end-points in, 586.
- use of ^{110m}Ag as indicator in, 456.
- voltammetric indication in, 2544.

Volumetric analysis, conductimetric, h.f., applications in pharmaceutical analysis, 4024.
- in 1,1,3,3-tetramethylguanidine, indicators for, 1926.
- thin-layer Hg electrode for, 658.

Volumetric analysis, coulometric, 1968 annual review, 677.
- apparatus for flowing liquids, 1928P.
- applications in clinical analysis, 1313C.
  - in industrial analysis, 3267.
- electrogeneration of $Fe(CN)_6^{4-}$ for, 3249.
- micro-cell for, 2523.
- modular solid-state unit for, 3238.
- sub-stoicheiometric, method for, 1927.
- transistorised controlled-potential apparatus for, 3248.

Volumetric analysis, photochemical, of fluorescent compounds, 1272.

Volumetric analysis, potentiometric, 1968 annual review, 677, 1948.
- apparatus for, 3244.
- carbon-rod and platinum electrodes for, 1321.
- electrodes for, 1307P.
- ion-exchange membrane electrodes for, 666.
- membrane electrode for, 2522.
- non-aq., influence of H_2O in solvents on, 3266.
  - use of phenazone perchlorate for standardisation in, 3263.
- reference electrode for, 3243P.

Volumetric analysis, redox, calculation of indicator error in, 9.
- use of Cr^{II} as titrant in, 687.

W

Waste, municipal, analysis of pyrolysis gas from, by GLC on dual column, 2446.

Water, detection, in org. liquids, continuous, apparatus for, 3484P.
- detmn., apparatus for, 718P, 719P.
  - by Karl Fischer method, electrodes for, 1307P.
    - semi-automated, 3247.
  - by titration in ethylenediamine with *N*-lithioethylenediamine, 3312.
  - in air or town gas, by GLC, 3314.
  - in bulk materials, continuous, 3313.
  - in dielectric materials, apparatus for, 2572P.
  - in freeze-dried ampoules, by coulom. hygrometer, 1106.
  - in gases, by GLC, 2225.
    - colorim., 42.
  - in granular materials, apparatus for, 2571P.
  - in minerals, ores or rocks, thermohygrometric, 3480.
  - in mixtures with methanol or formaldehyde, by GLC, with V 8-hydroxyquinolinate as stationary phase, 2573.
  - in paper, apparatus for, 3585P.
  - in petroleum, apparatus for, 3919P.
  - in pharm. adjuvants, comparison of methods for, 1659.
  - in polymers, manom., 2249.
  - in textiles, apparatus for, 1235P.
  - of bound, in flour and dough, by NMR, 3794.
  - of ^{2}H in, polarogr., 717.
  - of ^{18}O in, mass spectrom., 2277.

Water, heavy. (See also *Deuterium oxide.*)
- detmn. of p^{2}H of, with glass electrode, 1303.

Water, industrial, detmn. of cyclohexylamine, morpholine and fatty amines in, B.S.I. methods for, 3884.
- of pollutants in, by pyrolysis - GLC, 2445.
- for boilers, detmn., of NH_3 in, in presence of hydrazine, by Nessler method, 2444.
  - of carbohydrates in, apparatus for, 3883P.
  - of gases dissolved in, electrochem., apparatus for, 3882P.
  - of O in, automatic electrochem. analyser for, 3881P.

Water, mineral, detmn. of I^- in, with I^--specific membrane electrodes, 3229.

Water, natural. (See also *Water, rain; Water, sea.*)
- detection of $CHCl_3$ in, by GLC, 3125.
  - of pentachlorophenol in, by GLC, 573.
- detmn. of Al in, colorim., 3868.
  - of Sb in, polarogr., 2439.
  - of AsO_4^{3-} and PO_4^{3-} in, spectroph., 1400.
  - of Br^- in, absorptiom., 3872.
  - of Ca in, complexom., 567.
  - of C and oxidisability of org. compounds in, 568.

ater, natural, determination—*continued*
- of carboxylic acids in, polarogr., 570.
- of C.O.D. of, comparison of methods for, 1215.
- of Cl^- in, radiom., 1826.
- of Cl, free, in, colorim., 1825.
- of Cr in, by neutron activation, 1824.
- of Cu in, anodic-stripping voltamm., 733.
  - by exchange reaction on paper, 1822.
- of CN^- in, by modified Serfass distillation - colorim., 1823.
- of 2,4-D in, by solvent extraction - GLC, 3875.
- of DDT and BHC in, volum., 1205.
  - and methoxychlor in, by solvent extraction - TLC, 1206.
- of dissolved oxygen in, radiom., 1826.
- of fatty acids in, by GLC, 571.
- of F^- in, electrom., total ionic-strength adjustment buffer for, 2437.
- of glucose in, enzymic - fluorim., 3879.
- of Au in, ion-exchange chrom. - neutron activation, 566.
- of Pb in, polarogr., 3870.
- of malathion in, by solvent extraction - GLC, 3127.
- of metals in, atomic-absorption spectroph., 3123, 3124.
- of monuron in, by TLC, 3876.
- of NCl_3 in, volum., 3871.
- of oil pollutants in, continuous, fluorim, 3988.
- of org. compounds in, by capacitance measurements on platinum electrodes, 2441.
- of org. matter in, by pyrolysis - GLC, 3873.
- of organophosphorus pesticides in, by solvent extraction - GLC, 2442.
  - clean-up procedure for, 1828, 3866.
- of phenols in, by GLC, 572.
- of P, inorg., in, by molybdenum blue method, source of error in, 1204.
- of pollutants in, by GLC or TLC, 579.
  - sampler and test strip for, 3867P.
  - comparison of methods for, 3889.
  - review of 1967 literature, 3131.
- of K in, by solvent extraction - volum., 2438.
- of Na^+ in, electrom., with ion-specific electrode, 578.
- of Sr in, atomic-absorption spectroph., 2272.
- of SO_4^{2-} in, spectroph., by solvent extraction with metal - chelate cation, 2440.
- of trace elements in, by neutron activation and radiochem. sepn., 569.
- of U in, by liquid scintillation counting, 3869.

-, **rain,** detmn. of ^{7}Be, ^{32}P, ^{90}Sr, ^{210}Pb and ^{210}Po in, radiochemical schemes for, 563.
- of Ag in, by neutron activation, 3126.

-, **river,** detmn. of phenols and thiols in, by GLC, as pentafluorobenzyl- and thio-ethers, 1827.

-, **sea.** (See also *Brine; Marine sediments.*)
- detmn. of alkali- and alkaline-earth metals in, atomic-absorption spectroph., 3877.
  - of ^{13}C to ^{12}C ratio in dissolved org. matter of, manom., as CO_2, 3613.
  - of Cs in, flame photom., 1207.
  - of Ca in, complexom., 1208.
  - of C, N and P in, photochemical combustion of org. matter in, apparatus for, 1233.
  - of CO, dissolved, in, by GLC, 1209.
  - of glucose in, enzymic - fluorim., 3879.
    - comparison with bio-assay, 3880.
  - of Mo in, colorim., 1211.
    - and V in, chelating ion-exchange chrom. - spectroph., 1212.
  - of Ni in, spectroph., 1214.
  - of NO_3^- in, spectroph. as NO_2^-, apparatus for prepn. of reductant for, 1210.

Water, sea, determination—*continued*
  - of radioisotpes in, by isotope dilution or mass spectrometry, 576.
  - of Sc. in, atomic-absorption spectroph., 3878.
  - of trace elements in, atomic-absorption spectroph., after concn. on Chelex-100 column, 575.
    - by neutron activation and gamma-spectrometry, 2443.
      - and radiochem. sepn., 569.
- pollution of, u.v. absorption as index of, 574.

Water glass. (See *Sodium silicate.*)

Waxes. (See also *Petroleum waxes.*)
- analysis, by TLC, 340.
- identn. of olefins in natural, column chrom., 2227.

Weighing, apparatus for, 3137P.
  - for pre-determined weights, 1218P.
- applications of electronic balances in, 1831.
- balance for measuring change of weight, 583.
- effect of convection in a micro-balance, 3895.

Wheat, detmn. of fumigants in, by solvent extraction - GLC, 1192.
  - of malathion in, gel-permeation clean-up for 3117.
    - spectroph., as Cu complex, 3116.
  - of starch in fractions of, enzymic, 506.
- sepn. of tocopherols and isoprenoid quinones in, column chrom., 3833.

Wheat flour. (See *Flour.*)

Whisky. (See also *Spirits, potable.*)
- detmn. of aroma components of, by GLC, 1773.

Wine, detmn. of diethyl carbonate in, by GLC, 1171.
  - of trace metals in, atomic-absorption spectroph., 3073.
  - of volatile compounds in, by GLC, 1770.
- identn. of muscat aroma in, by GLC - spectroph., 3075.
- red, identn. of hybrid wine and alien fruit extracts in, by TLC of anthocyanins, 3074.
  - sepn. of paeonin from malvin in, by paper or thin-layer chrom., 1771.

Wood, analysis of preservatives in, X-ray spectrogr., 2233.
- detmn. of H_2O in, and sp. gr. of chips in a pressurised water system., by hydrometer, 956.

Wood tar, analysis of phenols in, by GLC, 3584.
- detmn. of catechol in, paper chrom., 957.
- sepn. and identn. of alkylphenanthrenes in, by GLC, 1507.

Wool, detmn. of Cl^- in, potentiom., 960.
  - of metals in, atomic-absorption spectroph., 2234.
  - of Na in, potentiom., 959.
  - of tryptophan in, spectroph., 1508.

Wort. (See *Malt wort.*)

X

Xanthenones, location of OH-groups in, spectroph., 3552.

Xanthine, detmn., in biol. fluids, simult. with hypoxanthine, enzymic - spectroph., 2337.
  - in blood plasma, in presence of uric acid and hypoxanthine, by TLC, 1080.
  - paper chrom. or paper electroph. - spectroph., 2956.

Xanthurenic acid, ^{14}C-labelled, detmn., in urine, in presence of kynurenic acid, ion-exchange chrom. - fluorim. or radiom., 1063.

Xenon, detmn. of ^{133}Xe and ^{133m}Xe from irradiation of ^{235}U or ^{239}Pu, spectrogr., 2656.

Xenotime, detmn. of Y_2O_3 in, X-ray spectrogr., 3360.

X-ray absorption, vapour thermostat and sample holder for, 2483.

X-ray contrast media, sepn., by GLC of trimethylsilyl deriv. of, 3703.
X-ray diffraction, 1968 annual review, 677.
  apparatus for back-reflection measurements, 1264.
  continuous averaging of data by multi-channel analyser, 1263.
  improvement of detectability in, by He enclosure, 2481.
  method of cutting gratings for, 2482.
  quant. comparison of powder patterns, 3185.
  recording device for, 630.
  report of conference on, 1310.
  spectrometers, concave-grating for, mounting for, 631.
  use of diffracted-beam monochromator in, 2762.
    of toroidal mirror in, 632.
X-ray spectra. (See also *Spectrography, emission, X-ray.*)
  effect of statistical counting errors on wavelength criteria, 1266.
  monochromator for, 1265P.
X-ray spectrofluorimetry. (See *Spectrography, emission, X-ray.*)
X-rays, absorption and emission methods, 1968 annual review, 677.
Xylene, sepn. of isomers of, column chrom., 2190.
***m*-Xylene, 2-nitro-,** sepn. from 4-nitro-*m*-xylene and detmn., by GLC, 927.
***p*-Xylene,** analysis of oxidation products of, polarogr., 2807.
Xylene-$\alpha\alpha'$-diamine, detmn. of dibenzylamine in, spectroph., 283.
Xylenol, differentiation of isomers of, spot tests for, 208.
—, chloro-, sepn., of isomers of, by GLC, 278.

Y

Yeast, sepn. of cells of, by centrifugal elutriation, apparatus for, 2263.
Ytterbium, detmn. of traces in other rare-earth metals, by isotope dilution and rate of evaporation from solid surfaces, 3283.
Yttrium, detmn., in presence of Sr, complexom., 1361.
    in total rare-earth metals, spectroph., 2022.
    of ^{91}Y in presence of ^{89}Sr, complexom., 1361.
    spectroph., 2638.
  sepn. from other rare-earth metals, by ion exchange, 3363.
  solvent extraction of, by bis(2-ethylhexyl) phosphate, influence of Mg, K and Na on, 2642.
Yttrium oxide, detmn., in xenotime and monazite concentrates, X-ray spectrogr., 3360.
    of Ce in, spectrofluorim., 1372.
    of Dy in, spectroph., by electron excitation, 776.
    of Dy, Eu, Gd and Sm in, spectroph., by neutron activation, 1374.
    of Nd, Tm and Yb in, by luminescence spectra 3361.
    of rare-earth-metal impurities in, comparison of methods for, 1373.
      spectrogr., 775.

Z

Zearalenones, sepn., in urine, by GLC, 1006.
Zeolites, detmn. of Al, Cu, Mn and Si in, 1337.
Zinc, concn. of, in rocks or soil, by ion exchange, 3479.
  detection, spot test for, 1363.
Zinc,—*continued*
  detmn., by solvent extraction - spectroph., 2006
    by TLC - reflection spectroph., 27.
    complexom., in non-aq. media, 707.
    coulom., 3249.
    fluorim., 60.
    gravim., 1326.
    in biol. materials, by neutron activation, 1534
    in blood and biol. tissues, semi-quant., by circular TLC, 2881.
    in blood plasma, a.c. polarogr., 2863.
      atomic-absorption spectroph., 2273.
    in blood serum, in presence of Cu, atomic absorption spectroph., 3611.
    in fertilisers, atomic-absorption spectroph. 3105.
    in Ga arsenide, by isotope dilution with sub stoicheiometric sepn., 3353.
    in iron and steel, polarogr., 2113.
    in Fe^{III} oxide, spectroph., 3449.
    in lubricating-oil additives, complexom., 3568
    in lubricating oils, atomic-absorption spec troph., 2222.
      photom., 3567.
    in minerals, ores or rocks, spectrogr., improve ment in sensitivity of, 3297.
    in Ni electroplating soln., polarogr., 192.
    in plants, atomic-absorption spectroph. o polarogr., 356.
      by HCl extraction - atomic-absorption spec troph., 2266.
      X-ray spectrogr., 3606.
    in presence of Cd and Cu, complexom., 698.
      of Cu, complexom., 728.
    in pyritic ores, by irradiation from Zr - ^{3}H an scintillation counting, 2007.
    in slag, complexom., 752.
    in soil, spectrogr., 1179.
    in steel, by solvent extraction - polarogr 3456.
    in urine, in presence of Cu, atomic-absorptio spectroph., 1539.
    in wine, atomic-absorption spectroph., 3073.
    mercurim., as pyridine - SCN^- complex, 23.
    of Sb in, anodic-stripping voltamm., 63.
    of Cu in, photom., 62.
      B.S.I. method for, 61.
    of impurities in, by neutron activation, 753.
    of Fe in, spectroph., 66.
    of protein-bound, in blood, by gel filtration radiom., 2854.
    of Ag in, by catalytic method, 2610.
    of ZnO in, coulom., 2612.
      spectroph., 3339.
  identn. on paper chromatograms, reagent fo 3289.
  sepn. from Cd, as vapours, by GLC, 2611.
    from Cd, Co and Ni, and detmn., 704.
    from Mn, by ion exchange, 3439.
  solvent extraction of, with thiothenoyltrifluoro acetone, 1973.
  study of reaction with xylenol orange, spectroph 2609.
—, phenyl-, detmn. of C - Zn bonds in, iodim., 3547
Zinc, reagents for, 5-hydroxy-6-[3-(1-methyl-2 piperidyl)-2-pyridylazo]naphthalene-1-sulphonic acid, 2006.
  magneson IREA, 3339.
  1-(2-pyridylazo)-2-naphthol, 3456.
  quinoxaline-2-carboxylic acid, 1326.
  8-(toluene-*p*-sulphonamido)quinoline, 60.
  zincon, 3567.
Zinc alloys, analysis of Cu - Zn, spectrogr., influenc of support electrode on, 1959.

- **nc compounds,** chloro-complexes, adsorption of, by Dowex A-1, 2559.
- **nc die-cast,** analysis, atomic-absorption spectroph., 3340.
- **nc fluoride,** detmn. of F in, by reaction with silicon, 2719.
- **nc selenide,** detmn. of excess Se or Zn in, spectrogr., 2614.
- **nc sulphate,** detmn. of Cd, Cl, Cu and Pb in, a.c. polarogr., 754.
  - of Mo and Re in soln. of, by neutron activation, 1364.
- **neb,** detmn., in crops, polarogr., 1191.
  - in fruits and vegetables, in presence of related dithiocarbamates, spectroph., 555.
  - in mixtures with nabam and maneb, 1190.
- **iram,** detmn., in fruits and vegetables, in presence of related dithiocarbamates, spectroph., 555.
- **irconium,** concn. of, on pyrogallol - formaldehyde resin, 3276.
  - detmn., amperom., as complex with xylenol orange, 3396.
    - atomic-absorption or atomic-fluorescence spectroph., source for, 1896.
    - in binary mixtures with Cu, Mg, Pb or Ni, amperom., 3307.
    - gravim., 1972.
    - in hafnium, by ion exchange - X-ray spectrogr., 2681.
    - in minerals, ores or rocks, by gamma-ray activation, 2061.
    - in Ti - Zr ores, by gamma-ray activation, 2062.
- **Zirconium,** determination—*continued*
    - in uranium, by solvent extraction - spectroph., 2657.
    - of Hf in, by ion exchange - X-ray spectrogr., 2681.
      - by isotope dilution, 2682.
    - of Nb in, spectroph., 139, 807.
    - spectroph., 2060, 2679.
  - sepn. from Ga and Th, by ion exchange, 3397.
    - from Nb^V and Th, by ion exchange in mixed solvents, 3306.
    - from Th, Ti and U, paper chrom., and identn., 1338.
    - of ^{95}Zr from fission products, 120.
      - from ^{95}Nb, 120.
        - paper chrom., 2680.
  - solvent extraction of, as benzeneseleninate, 2031.
  - sorption of, from org. solvent - HCl soln., by ion-exchange resins, 119.
- **Zirconium, reagents for,** arsenazo III, 2657.
  - kaempferol, 2060.
  - quercetagetin, 2679.
  - salicylfluorone, 1972.
  - 2-thenoyltrifluoroacetone, 2680.
- **Zirconium alloys,** detmn. of H in irradiated, automated, 2063.
- **Zirconium carbide,** detmn. of free C in, by combustion, 3377.
- **Zirconium compounds,** analysis, review, 3395.
- **Zirconium(IV) oxide,** phase analysis of system ZrO_2 - CaO - SiO_2, 3295.

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